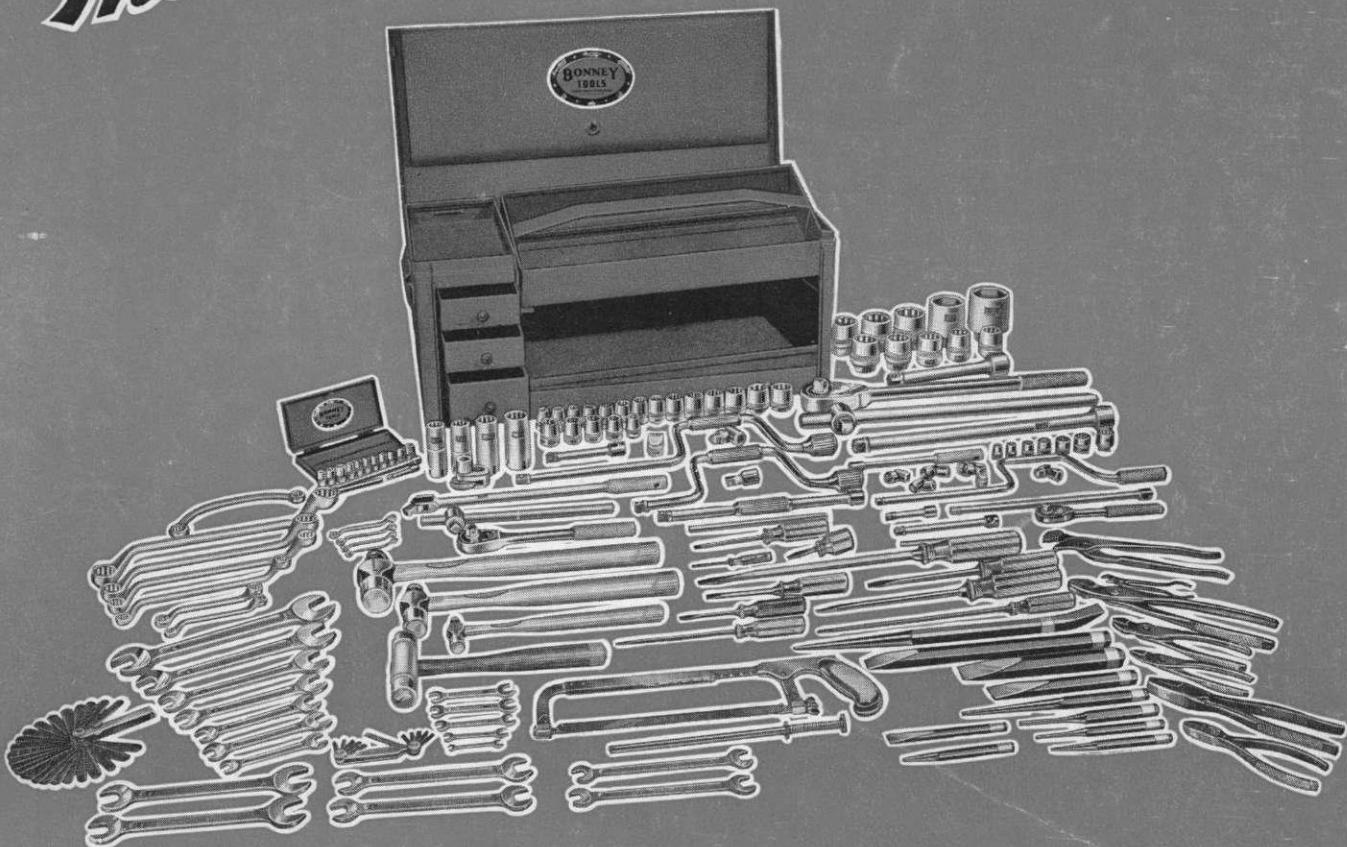


"The Finest that Money Can Buy"



CATALOG No. 41

BONNEY FORGE & TOOL WORKS  
ALLEN TOWN, PA., U.S.A.



*The Finest that  
Money Can Buy*

## 65 YEARS OF FINE TOOL MANUFACTURE

In this catalog you will find the most complete line of Bonney Tools ever presented for automotive, aviation and industrial work. It's the culmination of 65 years of constant research for new and better tools to do each job encountered better, easier and quicker than ever before.

### PIONEERS OF ALLOY STEEL WRENCHES AND TOOLS

Bonney pioneered alloy steel wrenches and tools. Bonney 'CV' Chrome-Vanadium Wrenches, since their introduction, have been regarded as the standard for quality and excellence in design and finish. They are sold with the guarantee "to strip the thread or break the bolt before damaging the wrench".

ZENEL Steel—developed by Bonney metallurgists and used only in Bonney Tools—is the toughest, hard wrench steel ever developed for hand tool manufacture. Any Bonney Wrench made of ZENEL is sold with an unconditional guarantee of satisfaction.

### TIME PAYMENTS

To help jobbers increase their tool sales and to help mechanics obtain the best in tools, Bonney has made arrangements with Commercial Credit Company so that Bonney Tools may be purchased on the Automotive Equipment Time Payment Plan.

### THE BONNEY GUARANTEE

All Bonney Tools are made from the finest obtainable steels to meet the normal conditions to which the tool will be subjected. Every Bonney Tool is individually and rigidly inspected before leaving the factory, and is guaranteed against defects in workmanship and/or materials. All tools that do not live up to this guarantee will be replaced or repaired free of charge.

No free replacement will be made if inspection shows that wrenches, sockets or handles have been hammered or used with any device for adding any extra leverage—handles or sockets have been ground thinner or changed in design—have been used on over or undersized nuts or where tools have been used for any purpose than that for which they have been designed.

No Bonney Tool will be replaced free of charge that shows normal wear and tear—damage from contact with hot wires—damage resulting from alterations or tampering—breakage from abuse or overload.

No Bonney Plier, Punch, Chisel or Screw Driver will be replaced or repaired free of charge that shows it has been used for other than its intended purpose, or that shows damage to the teeth or cutting edges resulting from use on hardened materials or tempered steel wire.

All Bonney Pliers *must* be returned to the factory in Allentown, Pa. with charges prepaid for examination before any adjustment will be made.

**BONNEY FORGE & TOOL WORKS**  
ALLENTOWN, PA.



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4019E	17	6603D	37	BW6	83	D19	16	F33B	96	K4	80	LT28	10
4092	17	6606	37	Jaw for		D20	16	F33H	96	K6	80	P10	37
4093	17	6606A	37	BW6	83	D21	16	F34	96	K8	80	P12	37
4094	17	6606B	37	Knurl for		D22	16	F34B	96	K10	83	P14	37
4095	17	7940	68	BW6	83	D24	16	F34H	96	K11	83	P16	37
4096	17	7941	68	Pin for		D25	16	F35	96	K12	83	P18	37
4096A	17	7942	68	BW6	83	D26	16	F35B	96	K13	83	P20	37
4098	17	7944	68	Spring for		D28	16	F35H	96	K14	83	P22	37
4098A	17	7944A	68	BW6	83	D30	16	F36	96	K15	83	P24	37
4112	16	8385	103	BW8	83	D30	16	F36B	96	K17	83	PH1	92



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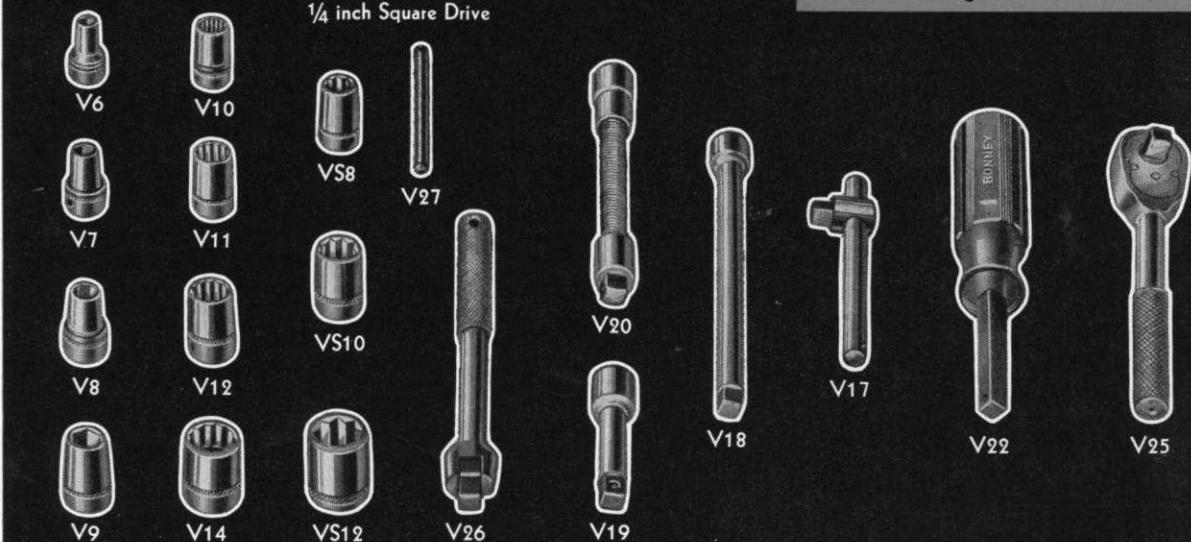
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PH5	92	RF60	81	TU16	10			STILLSON WRENCHES		BB1 on C	34	CC	33
PH6	92	RF61	81	TU18	10					C45CB	103	D	18
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PH9	92	RF63	81	V6	7	6"	82			C46CB	103	D3	19
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	93	S4232	42	V11	7	24"	82			D	18		
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	93	TH20	10	Z2816	48					412LR	61		
Brass Insert only for PH44		TH22	10	Z2818	48					A1CB	20	METAL BOXES ONLY	
	93	TH24	10	Z2820	48					A2CB	20		
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	93	TS16	10	Z2824	48					A3MB	20		
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	93	TS20	10	Z2826	48					A3	{31}		
				Z2828	48	12"	80			AA2 on CC	28		
					48	14"	80			AB	29		
										AB on CC	35		
										B1	25		
										BB1	26		
											Z31	53	



*'CV' Chrome-Vanadium*  
**EXTRA-SMALL SOCKET SERIES**

Chromium Plated  
1/4 inch Square Drive



*The Finest that  
Money Can Buy*

### Extra-Small Series Sockets

No.	Opening	No.	Opening
V6	3/16" Hexagon	V12	3/8" Double Hexagon
V7	7/32" "	V14	7/16" " "
V8	1/4" "	VS8	1/4" Double Square
V9	9/32" "	VS10	5/16" " "
V10	5/16" Double Hexagon	VS12	3/8" " "
V11	11/32" " "		

### Extra-Small Series Handles and Attachments

No.	Opening	No.	Opening
V17	Sliding "T" Handle, 4 1/2" long	V22	Screw Driver Handle, non-conductor type, 6" overall
V18	Extension, 6" long	V25	Reversible Ratchet, 4 1/2" long
V19	Extension, 2" long	V26	Hinge Handle, 5 3/4" long
V20	Extension, Flexible, 4" long	V27	Cross Handle, 3 1/2" long for V26

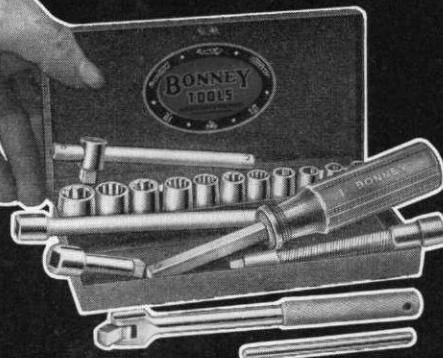


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## EXTRA-SMALL SERIES SOCKET SETS



No. V50 Set



No. V51 Set



No. V52 Set

### No. V50 Set

1/4 Inch Square Drive

14 Pieces

A dandy pocket size kit of sockets and attachments for turning small nuts. All pieces are made of Bonney 'CV' Chrome-Vanadium Steel, fully chrome plated. Packed complete in strong, attractively finished metal box measuring 6 1/4" x 3" x 1". Contents are listed in the table below.

No.	Description	No.	Description
V6	3/16" Hexagon Socket	V14	7/16" Double Hexagon Socket
V7	7/32" " "	V15	1/4" Double Square Socket
V8	1/4" " "	VS10	5/32" " "
V9	9/32" " "	VS12	13/32" " "
V10	5/16" Double Hexagon Socket	V18	Extension, 6" long
V11	11/32" " "	V19	Extension, 2" long
V12	3/8" " "	V17	Sliding "T" Handle, 4 1/2" long

Net Weight 1 lb. 5 oz.

### No. V51 Set

1/4 Inch Square Drive

18 Pieces

A complete set of extra-small sockets and attachments that will be found exceptionally useful for making adjustments to distributors, carburetors, generators and in fact, wherever adjustments must be made to small nuts.

All sockets and handles with the exception of No. V22 are made of Bonney 'CV' Chrome-Vanadium Steel, fully chrome plated.

All pieces are packed in a strong, pocket size metal box measuring 6 1/4" x 3" x 1" and are fully guaranteed. Contents include one each of the following:

No.	Description	No.	Description
V6	3/16" Hexagon Socket	VS12	3/8" Double Square Socket
V7	7/32" " "	V17	Sliding "T" Handle, 4 1/2" long
V8	1/4" " "	V18	Extension, 6" long
V9	9/32" " "	V19	Extension, 2" long
V10	5/16" Double Hexagon Socket	V20	Flexible Extension, 4" long
V11	11/32" " "	V22	Screw Driver Handle, non-conductor type, 6" long
V12	3/8" " "	V26	Hinge Handle, 5 3/4" long
V14	7/16" Double Square Socket	V27	Cross Handle, 3 1/2" long for V26
VS8	1/4" Double Square Socket		
VS10	5/16" " "		

Net Weight 1 3/4 lbs.

### No. V52 Set

1/4 Inch Square Drive

24 Pieces

An unusually complete set of extra-small sockets and attachments, plus an assortment of miniature open end wrenches and a pocket size screw driver that any mechanic will find useful for electrical, radio, ignition work, etc.

Packed in a substantial, attractively finished metal box measuring 6 1/4" x 4" x 1 3/16". Included in the set are one each of the following:

No.	Description	No.	Description
V6	3/16" Hexagon Socket	V20	Flexible Extension, 4" long
V7	7/32" " "	V22	Screw Driver Handle, non-conductor type, 6" overall
V8	1/4" " "	V26	Hinge Handle, 5 3/4" long
V9	9/32" " "	V27	Cross Handle, 3 1/2" long for V26
V10	5/16" Double Hexagon Socket		ZENEL MINIATURE OPEN END WRENCHES
V11	11/32" " "		3/16" & 7/32" openings
V12	3/8" " "		1/4" & 9/32" "
V14	7/16" " "	H10	5/16" & 11/32" "
VS8	1/4" Double Square Socket	H12	3/8" & 7/16" "
VS10	5/16" " "	H14	13/32" & 15/32" "
VS12	3/8" " "	H16	
V17	Sliding "T" Handle, 4 1/2" long	H18	
V18	Extension, 6" long	001	Pocket Size Screw Driver, non-conductor type
V19	Extension, 2" long		

Net Weight 2 lbs.

# No. V55 EXTRA-SMALL SOCKET and TOOL SET



# The Finest that Money Can Buy



**H**ERE is the most complete set of extra-small and miniature tools ever assembled. It contains an assortment of  $\frac{1}{4}$ " square drive sockets with handles and attachments made of Bonney 'CV' Chrome-Vanadium Steel; miniature box wrenches; miniature open end wrenches; small chisels; punches; screw drivers; hammers and miscellaneous tools. It will be found exceptionally useful by the "tune-up" and

ignition specialist and those who service and install radios, electrical appliances and other small apparatus where parts are small and space in which to work is limited.

All 46 pieces are packed in an attractively finished, sturdily made metal box which measures  $11\frac{1}{8}'' \times 6\frac{1}{8}'' \times 1''$ . Contents include one each of the following:

No.	Description	No.	Description
V6	1/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS 3/16" Hexagon Socket	E28	ZENEL OPEN-END WRENCHES (Continued) 3/8" at 15° end, 11/32" at 60° end
V7	7/32" "	E30	7/16" " " 1/2" "
V8	1/4" " "	H10	3/16" & 7/32" Miniature
V9	9/32" " "	H12	1/4" & 9/32" "
V10	5/16" Double Hexagon Socket	H14	5/16" & 11/32" "
V11	11/32" " "	H16	3/8" & 7/32" "
V12	9/8" " "	H18	13/32" & 15/32" "
V14	7/16" " "	C1	PUNCHES AND CHISELS
VS8	1/4" Double Square Socket	C51	Cold Chisel, 5" long, 5/16" edge
VS10	5/16" " "	C52	Pin Punch, 1/16" point
VS12	3/16" " "	C53	Pin Punch, 5/64" point
V17	Sliding "T" Handle, 4 1/2" long	C56	" " 3/32" "
V18	Extension, 6" long	C61	Center Punch, 4" long, 1/16" point
	BOX WRENCHES	O01	SCREW DRIVERS
E40	3/16" & 13/32" Extra-Small with Hexagon opening	O02	Pocket Size, 2" blade, 1/8" tip
E42	7/32" & 15/32" " " " "	O06	2" Blade, 1/8" tip (neon tube)
E44	1/4" & 9/32" Extra-Small with Double Hexagon opening	B424	6" Blade, 3/16" tip
E46	5/16" & 11/32" " " " "	E55	MISCELLANEOUS TOOLS
	ZENEL OPEN-END WRENCHES	K6	Channellock Ignition Plier
E14	13/64" at 15° end, 15/64" at 60° end	PH1	Tweezer, 5" long
E16	15/64" " " 13/64" " "	PH17	Holding Tool, 6" reach
E18	7/32" " " " 1/4" " "	K52	2 oz. Ball Pein Hammer
E20	1/4" " " " 7/32" " "		1 1/2 oz. Soft-face Hammer
E22	9/32" " " " 5/16" " "		5" Point File
E24	5/16" " " " 9/32" " "		Ignition Feeler Gauge
E26	11/32" " " " 7/8" " "		

**Net Weight—4 lbs. 2 oz.**



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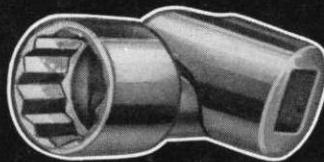


Double Hexagon Sockets

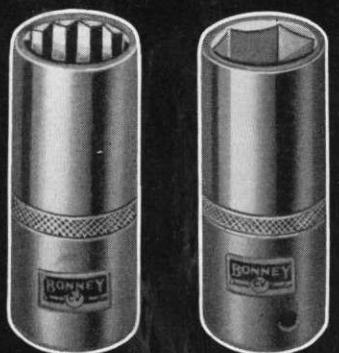
Hexagon Sockets



Deep Double Square Sockets



Flexible Double Hexagon Sockets



Extra-Deep Double Hexagon Sockets

Extra-Deep Hexagon Sockets

## 'CV' Chrome-Vanadium SMALL SOCKET SERIES

3/8 inch Square Drive  
Chromium Plated

### Double Hexagon and Hexagon Sockets

Opening	Double Hexagon No.	Hexagon No.	U. S. S. Bolt Size	Hex. Head Cap Screws	S.A.E. Std. Screw & Nut
5/16"	T10	TH10	1/8	1/8	.....
3/8"	T12	TH12	3/16	3/16	.....
7/16"	T14	TH14	.....	1/4	1/4
1/2"	T16	TH16	1/4	5/16	5/16
9/16"	T18	TH18	.....	3/8	3/8
19/32"	T19	.....	5/16	.....	.....
5/8"	T20	TH20	.....	7/16	7/16
11/16"	T22	TH22	3/8	.....	.....
3/4"	T24	TH24	.....	1/2	1/2
13/16"	T26	.....	.....	9/16	.....
7/8"	T128	.....	1/2	5/8	9/16

### Deep Double Square Sockets

No.	Opening	Length	U. S. S. Bolt Size	U. S. S. Cap Screw	U.S.S. or Amer. Std. Set Screw
TS14	7/16"	1 1/2"	.....	5/16	7/16
TS16	1/2"	1 1/2"	1/4	3/8	1/2
TS18	9/16"	1 1/2"	.....	7/16	9/16
TS20	5/8"	1 1/2"	.....	1/2	5/8

### Flexible Double Hexagon Sockets

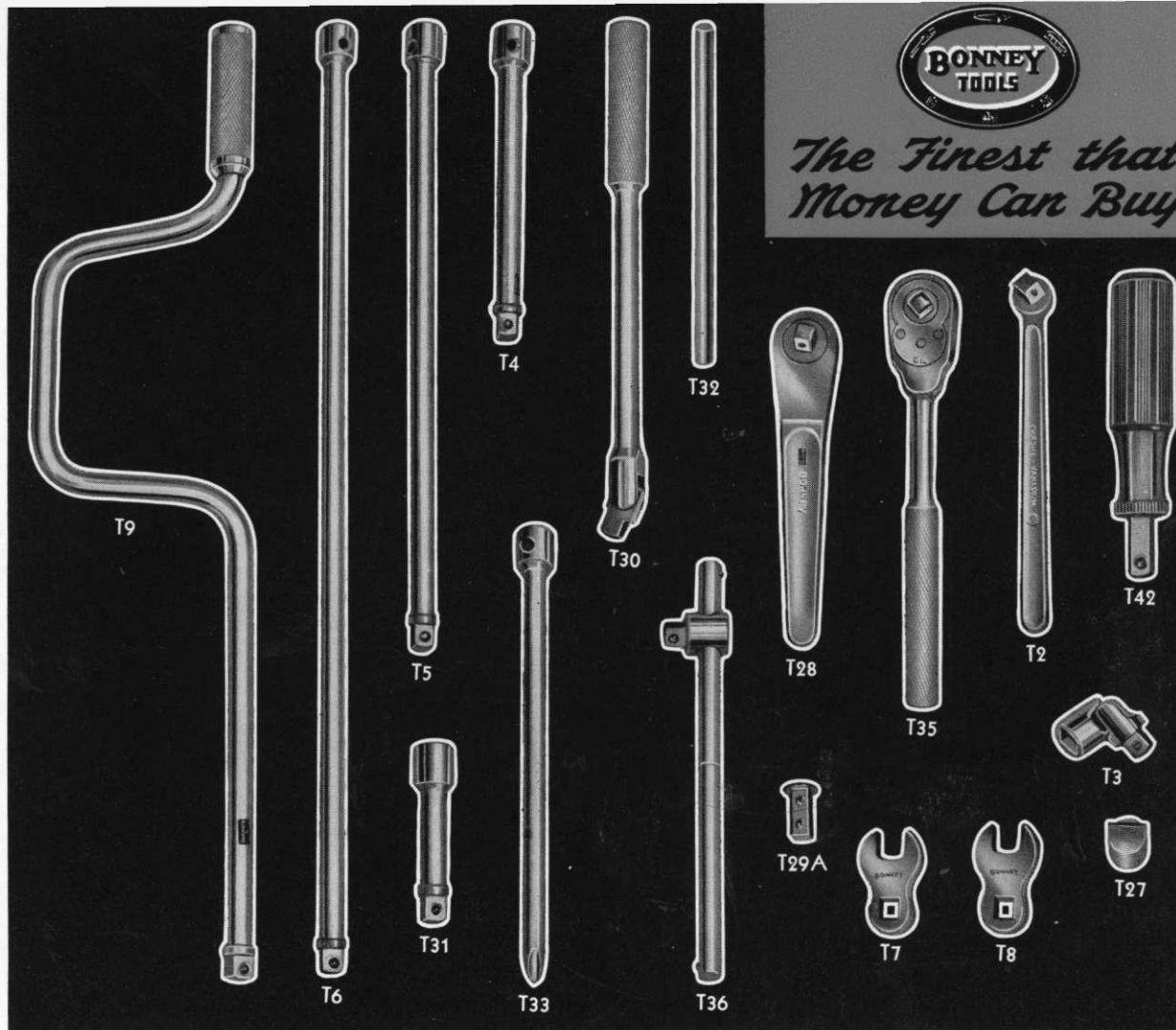
No.	Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut
TU14	7/16"	.....	1/4	1/4
TU16	1/2"	1/4	5/16	5/16
TU18	9/16"	.....	3/8	3/8
TU20	5/8"	.....	7/16	7/16

### Double Hexagon and Hexagon Extra-Deep Sockets

Opening	Double Hexagon		Hexagon		U. S. S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut
	No.	Length	No.	Length			
7/16"	LT14	2"	T140	2"	.....	1/4	1/4
1/2"	LT16	2"	T160	2"	1/4	5/16	5/16
9/16"	LT18	2"	T180	2"	.....	3/8	3/8
5/8"	LT20	2 1/4"	T200	2 1/4"	.....	7/16	7/16
11/16"	LT22	2 3/8"	T220	2 3/8"	3/8	.....	.....
3/4"	LT24	2 3/8"	T240	2 3/8"	.....	1/2	1/2
13/16"	LT26	2 3/8"	T260	2 3/8"	.....	9/16	.....
7/8"	LT28	2 1/2"	T280	2 1/2"	1/2	5/8	9/16



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## 'CV' Chrome-Vanadium SMALL SERIES HANDLES and ATTACHMENTS

3/8 inch Square Drive  
Chromium Plated

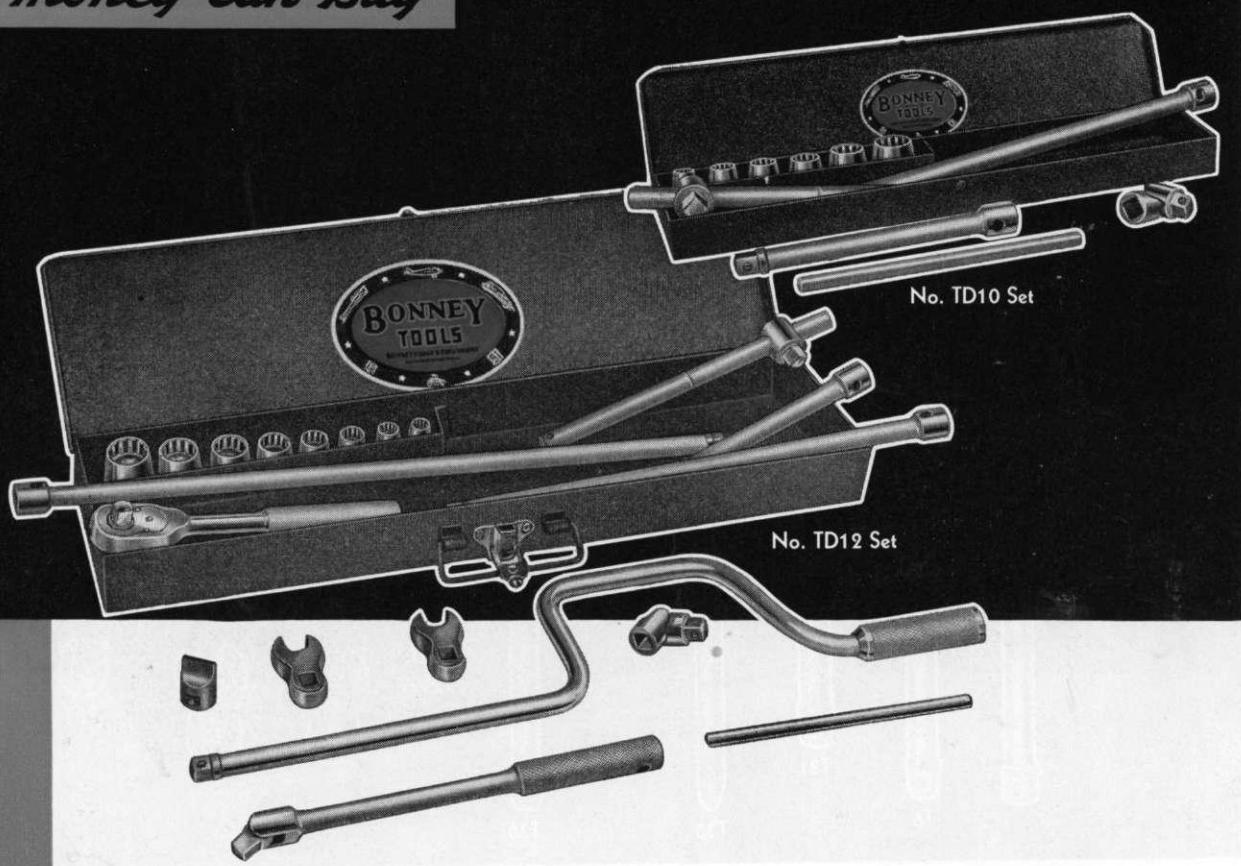
No.	Description	No.	Description
T2	Offset Handle, 7" long	T30	Hing Handle, 8½" long
T3	Universal Joint	T31	Extension, 3" long
T4	Extension, 6" long	T32	Cross Handle, 6" long, for T4, T5, T6, T30, T33
T5	Extension, 12" long	T33	Blade with No. 4 Tip for No. 18 and larger Phillips Screws, 8¾" long
T6	Extension, 17" long	T35	Reversible Ratchet, 7" long
T7	½" Crowfoot attachment	T36	Sliding 'T' Handle, 8" long
T8	⅜" Crowfoot attachment	T42	Screw Driver Handle, non-conductor type, 5⅛" long
T9	Speeder, 17½" long		
T27	Drag Link Socket		
T28	Ratchet Handle with Lug, 6½" long		
T29A	Extra Lug for Ratchet		



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## SMALL SERIES SOCKET SETS

3/8 inch Square Drive



### No. TD10 Set

11 Pieces

THE No. TD10 Set is designed especially for those who want quality with a minimum investment. Contains eleven pieces each selected for the large number of uses to which it may be put. All pieces are made of Bonney 'CV' Chrome-Vanadium Steel, chrome plated and fully guaranteed. Packed complete in an attractively finished metal box measuring 12 $\frac{3}{8}$ " x 2 $\frac{1}{4}$ " x  $\frac{7}{8}$ ".

#### Contents

No.	Description			
T3	Universal Joint			
T4	Extension, 6" long			
T5	Extension, 12" long			
T10	5/16" Double Hexagon Socket			
T12	3/8"	"	"	"
T14	7/16"	"	"	"
T16	1/2"	"	"	"
T18	9/16"	"	"	"
T20	5/8"	"	"	"
T32	Cross Handle, 6" long			
T36	Sliding 'T' Handle, 8" long			

Net Weight 2 $\frac{3}{4}$  lbs.

### No. TD12 Set

20 Pieces

A complete, compact set of 3/8" square drive sockets and attachments. Packed in an attractively finished metal case measuring 18" x 4 $\frac{1}{4}$ " x 1 $\frac{1}{2}$ ". All pieces are of 'CV' Chrome-Vanadium Steel fully chrome plated. It makes an ideal set for use either in the shop or on the job.

#### Contents

No.	Description			
T10	5/16"	Double Hexagon Socket		
T12	3/8"	"	"	"
T14	7/16"	"	"	"
T16	1/2"	"	"	"
T18	9/16"	"	"	"
T20	5/8"	"	"	"
T22	11/16"	"	"	"
T24	3/4"	"	"	"
T3	Universal Joint			
T4	Extension, 6" long			
T5	Extension, 12" long			
T6	Extension, 17" long			
T7	1/2" Crowfoot Attachment			
T8	9/16" Crowfoot Attachment			
T9	Speeder, 17 $\frac{1}{2}$ " long			
T27	Drag Link Socket			
T30	Hinge Handle, 8 $\frac{1}{2}$ " long			
T32	Cross Handle, 6" long			
T35	Reversible Ratchet, 7 $\frac{1}{2}$ " long			
T36	Sliding 'T' Handle, 8" long			

Net Weight 7 $\frac{1}{2}$  lbs.

# SMALL SERIES SOCKET SETS

3/8 inch Square Drive



*The Finest that Money Can Buy*



## No. TD11 Set

12 Pieces

A socket set containing the latest type reversible ratchet and assortment of handles and attachments that will be found useful in practically all automotive service work. Each piece is made of Bonney 'CV' Chrome-Vanadium Steel, chrome plated and fully guaranteed. The box is attractively finished, made of heavy gauge sheet metal and measures  $12\frac{1}{2}'' \times 2\frac{5}{8}'' \times 1\frac{3}{4}''$ .

### Contents

No.	Description
T10	5/16" Double Hexagon Socket
T12	3/8" " " "
T14	7/16" " " "
T16	1/2" " " "
T18	9/16" " " "
T20	5/8" " " "
T3	Universal Joint
T4	Extension, 6" long
T5	Extension, 12" long
T32	Cross Handle, 6" long
T35	Reversible Ratchet, 7" long
T36	Sliding "T" Handle, 8" long

Net Weight 23/4 lbs.

## No. TD4 Set

38 Pieces

A 3/8 inch square drive set that will answer practically every automotive need for a set of this size drive. Packed complete in an attractively finished metal box measuring  $19'' \times 5'' \times 4\frac{1}{4}''$  having removable tote tray. All pieces are made of 'CV' Chrome-Vanadium Steel, fully chrome plated and each piece is fully covered by the Bonney Guarantee. Contents are as follows:

No.	Description
T3	Universal Joint
T4	Extension, 6" long
T5	Extension, 12" long
T6	Extension, 17" long
T9	Speeder, 17 1/2" long
T10	5/16" Double Hexagon Socket
T12	3/8" " " "
T14	7/16" " " "
T16	1/2" " " "
T18	9/16" " " "
T19	19/32" " " "
T20	7/8" " " "
T22	11/16" " " "
T24	5/4" " " "
T26	13/16" " " "
T128	7/8" " " "
TS14	7/16" Double Square Socket, 1 1/2" long
TS16	9/16" " " "
TS18	5/8" " " "
TS20	11/16" " " "
TU14	7/16" Flexible Double Hexagon Socket
TU16	1/2" " " "
TU18	9/16" " " "
TU20	5/8" " " "
LT14	7/16" Extra Deep Double Hexagon Socket
LT16	9/16" " " "
LT18	5/8" " " "
LT20	11/16" " " "
LT22	5/4" " " "
LT24	13/16" " " "
LT26	7/8" " " "
LT28	11/16" " " "
T27	Drag Link Socket
T30	Hinge Handle, 8 1/2" long
T31	Extension, 3" long
T32	Cross Handle, 6" long
T35	Reversible Ratchet, 7" long
T36	Sliding "T" Handle, 8" long

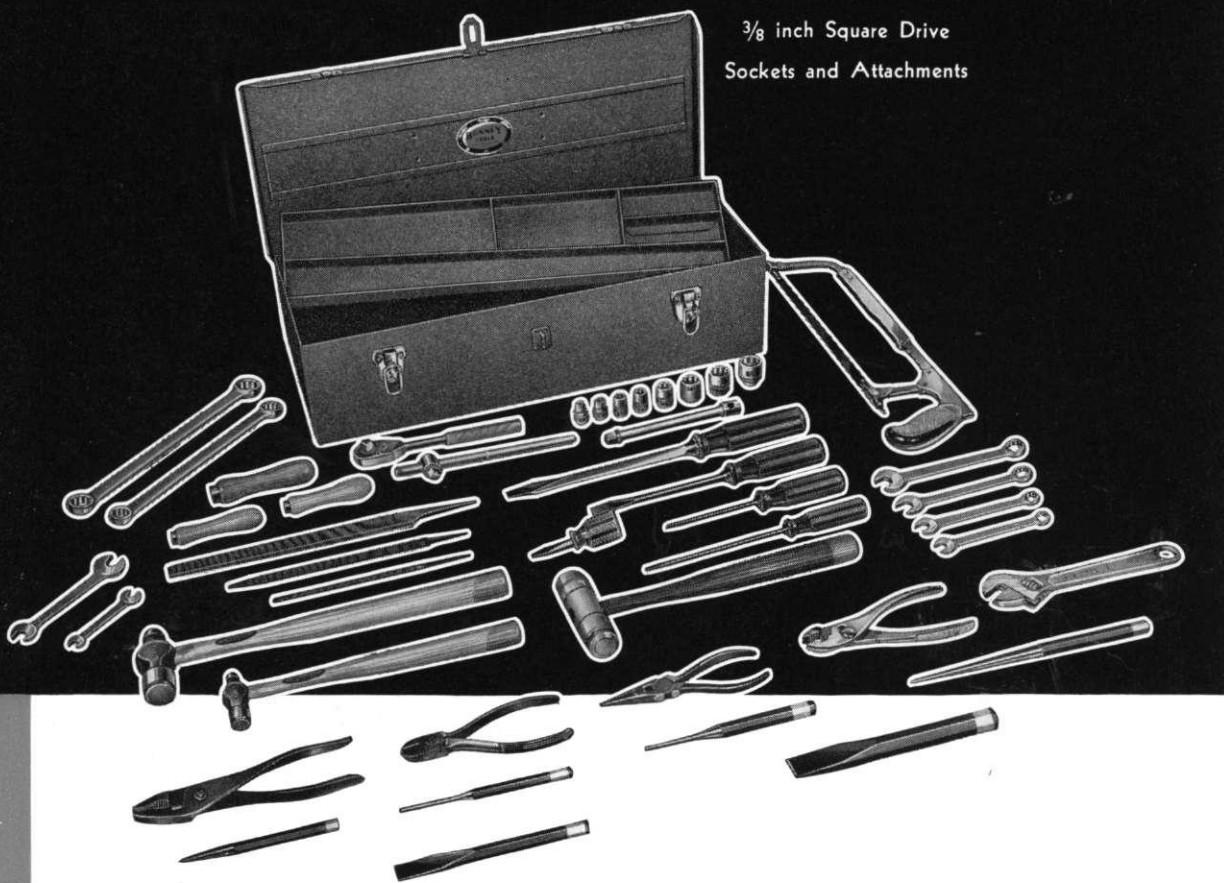
Net Weight 16 lbs.



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## No. TD5 AERONAUTICAL SOCKET and TOOL SET

45 Pieces



ASSEMBLED especially for the aeronautical engine mechanic it will be found to contain all of the essential stock tools needed for service work of this kind. Each one of the 45 pieces is of the finest quality and selected

for its general utility value. All are packed in a substantial metal case which measures 20½" x 8" x 5". It has removable tray, carrying handle, padlock hasp and two end catches. Contents are as follows:

No.	Description	No.	Description
<b>3/8" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>			
TH10	5/16" Hexagon Socket	04	SCREW DRIVERS
TH12	3/8" "	06	Round Shank, 1/4" x 4" Blade
TH14	7/16" "	S01	" " 5/16" x 6" "
TH16	1/2" "	S08	Adjusting, 1/4" x 1 1/4" Blade
TH18	9/16" "	006	Square Shank, 1/4" x 8" Blade
TH20	5/8" "	PH2	Electricians' 3/16" x 6" Blade
TH22	11/16" "	PH6	
TH24	3/4" "	PH44	
T4	Extension, 6" long		<b>HAMMERS</b>
T35	Reversible Ratchet, 7" long		3 1/2 oz. Ball Pein
T36	Sliding "T" Handle, 8" long		3/4 lb. Ball Pein
	<b>WRENCHES</b>		10 oz. Soft Face, with one regular tip and one
1160	3 1/2" Opening Bonaloy Tu Type		regular tip with brass insert
1161	7/16" "	C3	<b>PUNCHES AND CHISELS</b>
1162	1 1/2" "	C5	Flat Chisel, 5/8" cut
1163	9/16" "	C26	" " 7/8" "
2892	5/8" & 11/16" Double Hexagon Openings, 15°	C28	Long Taper Punch, 3/16" point
	Angle Long Type Box Wrench	C29	Pin Punch, 1/8" point
2893B	3/4" & 7/8" Double Hexagon Openings, 15°	C34	" " 3/16" "
	Angle Long Type Box Wrench		Center Punch, 5" long
1721	5/16" & 3/4" "CV" Engineers'		<b>MISCELLANEOUS</b>
1725	7/16" & 1 1/2" "CV" Engineers'	2628	Adjustable Hack Saw Frame and Blade
BW8	8" Open End Adjustable		6" Round Bastard File
	<b>PLIERS</b>		8" Extra Slim Taper File
B6	6" Combination		10" Half-Round Bastard File
B17	6" Diagonal Cutting		Small File Handle
B25	6" Long Nose Side Cutting		Two Medium File Handles
B537	7 1/2" Champion DeArment Combination Side Cutting		

Net Weight 27 lbs.

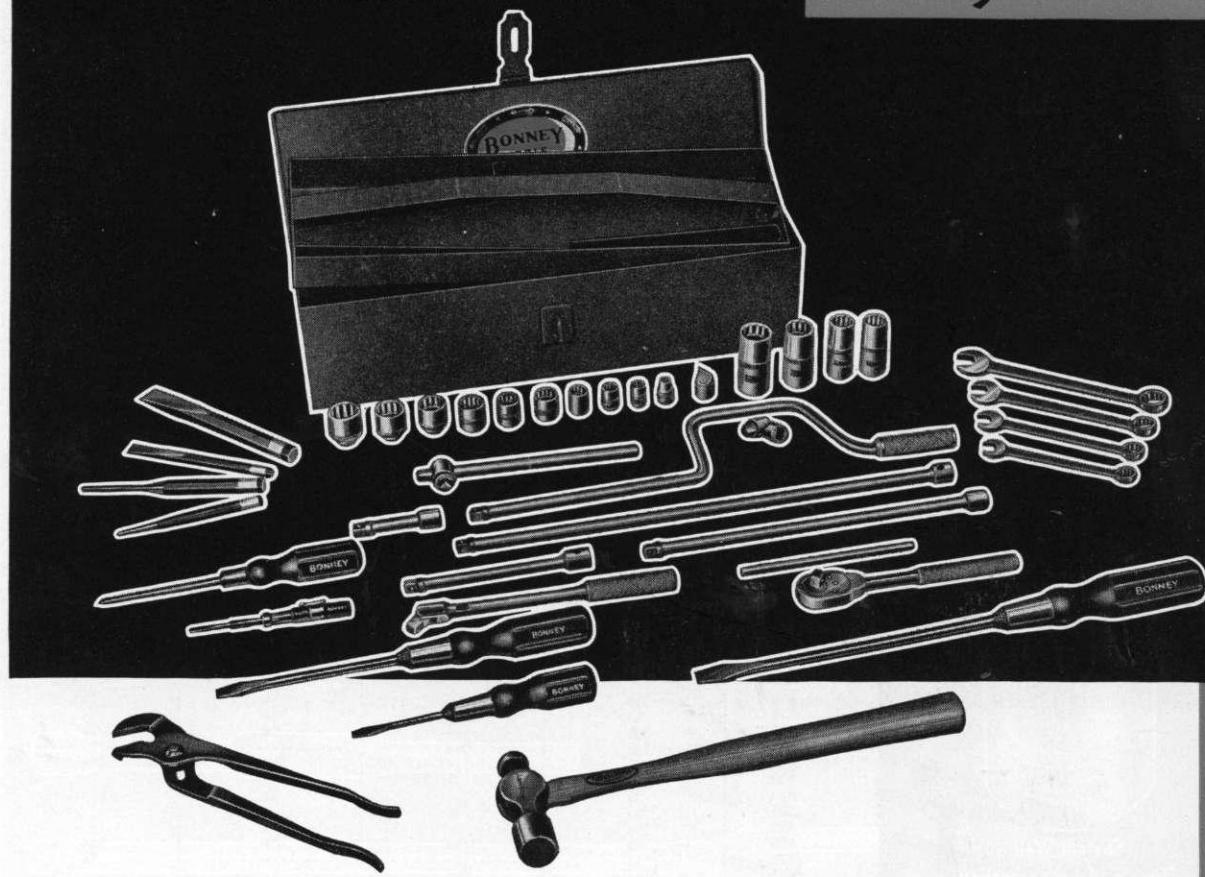


# No. TD6 SOCKET and TOOL SET

40 Pieces

3/8 inch Square Drive Sockets and Attachments

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A fine, light weight socket and tool set, comprising the most needed and useful tools for all-around service work. Contains ten 3/8" square drive double hexagon sockets with openings from 5/16" to 7/8", plus an assortment of handles and attachments for making practically any desired combination. In addition it includes combination box and open end wrenches, chisels, punches, screw drivers, adjustable

plier and ball pein hammer all in the most needed sizes. Every tool is of fine quality—made from the finest steels obtainable. All are packed in a sturdy metal box measuring 19" x 5" x 4 1/4" with carrying handle, end catches, padlock hasp and removable tote tray. Complete list of contents is as follows:

No.	Description	No.	Description
T10	5/16" Double Hexagon Socket	T31	Extension, 3" long
T12	" " "	T32	Cross Handle, 6" long
T14	7/16" " " "	T35	Reversible Ratchet, 7" long
T16	1/2" " " "	T36	Sliding "T" Handle, 8" long
T18	9/16" " " "	1161	7/16" Bonaloy TuType Wrench
T20	5/8" " " "	1162	1/2" " " "
T22	11/16" " " "	1163	9/16" " " "
T24	3/4" " " "	1164	5/8" " " "
T26	13/16" " " "	B420	Adjustable Channellock Plier, 1/2" to 1 1/8" capacity
T128	7/8" " " "	C2	Flat Chisel, 7/16" cut
LT20	5/8" Extra-Deep Double Hexagon Socket, 2 1/4" long	C4	Flat Chisel, 3/4" cut
LT22	11/16" " " " 23/32" "	C34	Center Punch
LT26	13/16" " " " 23/32" "	C29	Pin Punch, 3/16" point
LT28	7/8" " " " 2 1/2" "	E02	Screw Driver (Neon Tube) 1/8" x 2 1/4" blade
T3	Universal Joint	W03	Wood Handle Screw Driver, 7/32" x 3" blade
T4	Extension, 6" long	W06	" " " 5/16" x 6" "
T5	Extension, 12" long	W010	" " " 7/16" x 10" "
T6	Extension, 17" long	WP2	" " " for Phillips Screws Nos. 5 to 9 inc
T9	Speeder, 17 1/2" long	PH6	3/4 lb. Ball Pein Hammer
T27	Drag Link Socket		
T30	Hinge Handle, 8 1/2" long		

Net Weight 20 1/2 lbs.



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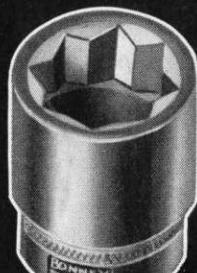
Double Hexagon Sockets



Straight Wall  
Double Hexagon Sockets



Hexagon Sockets



Double Square Sockets

## 'CV' Chrome-Vanadium STANDARD SOCKET SERIES

1/2 inch Square Drive

Chromium Plated

### Double Hexagon Sockets

No.	Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut
D12	3/8"	3/16	3/16	.....
D14	7/16"	.....	1/4	1/4
D16	1/2"	1/4	5/16	5/16
D17	17/32"	.....	3/8	3/8
D18	9/16"	.....	5/8	5/8
D19	19/32"	5/16	7/16	7/16
D20	5/8"	.....	7/16	.....
D21	21/32"	.....	7/16	.....
D22	11/16"	3/8	7/16	.....
D24	3/4"	.....	1/2	1/2
D25	25/32"	7/16	9/16	.....
D26	13/16"	.....	9/16	.....
D28	7/8"	1/2	9/16	9/16
D30	15/16"	.....	9/16	9/16
D31	31/32"	9/16	9/16	9/16
D32	1"	.....	3/4	1 1/16
D34	11/16"	5/8	7/8	3/4
D36	1 1/8"	.....	7/8	.....
D38	13/8"	.....	7/8	.....
D40	1 1/4"	3/4	1	7/8

### Straight Wall Double Hexagon Sockets

No.	Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut
A14	7/16"	.....	1/4	1/4
A16	1 1/8"	1/4	5/16	5/16
A18	9/16"	.....	3/8	3/8
A19	19/32"	5/16	.....	.....
A20	5/8"	.....	7/16	7/16
A22	11/16"	3/8	7/16	.....
A24	3/4"	.....	1/2	1/2
A25	25/32"	7/16	9/16	.....
A26	13/16"	.....	9/16	.....
A28	7/8"	1/2	9/16	9/16
A30	15/16"	.....	9/16	9/16
A31	31/32"	9/16	9/16	9/16
A32	1"	.....	3/4	1 1/16

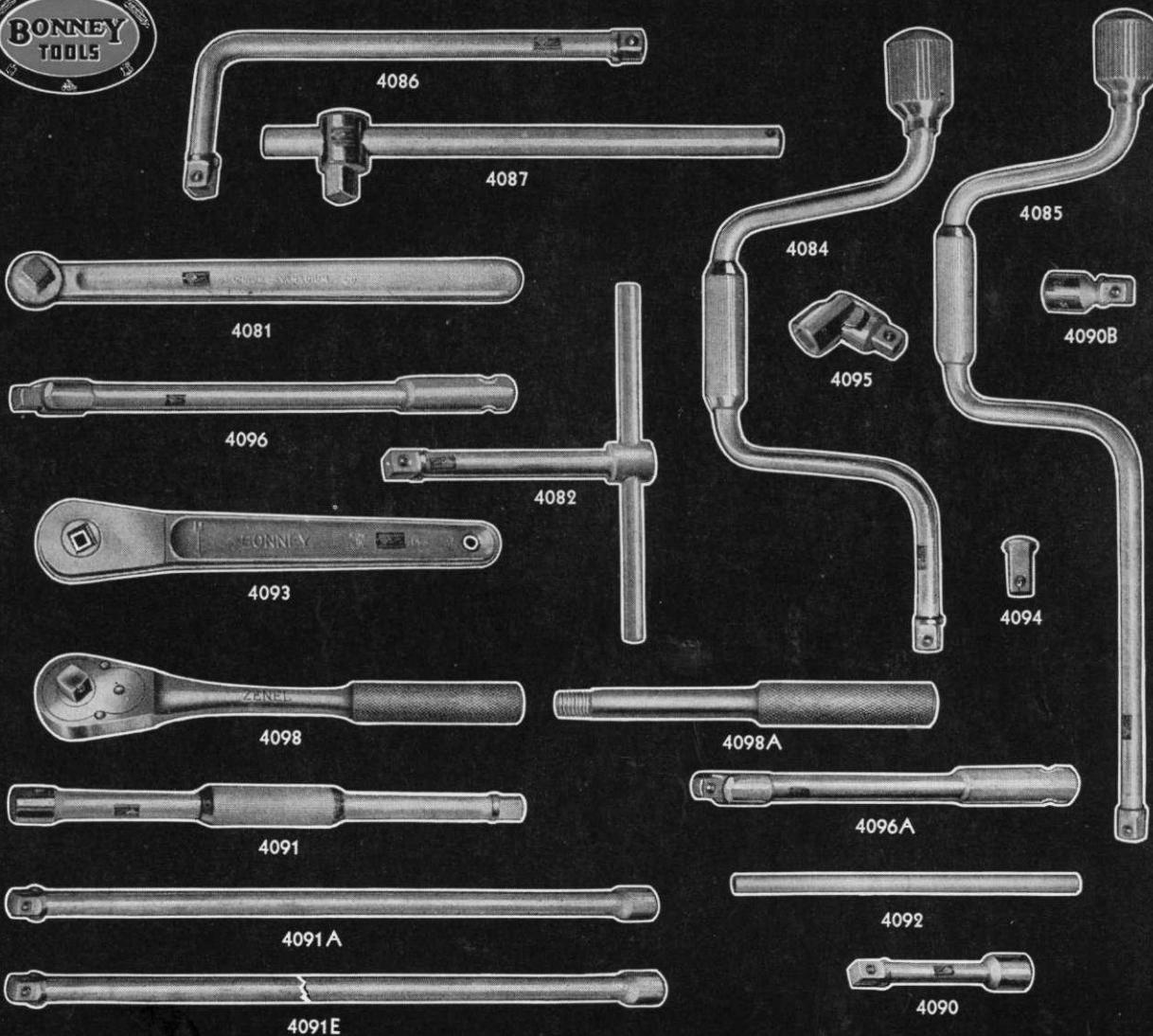
### Hexagon Sockets

No.	Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut
4012	3/8"	3/16	3/16	.....
4014	7/16"	1/4	1/4	1/4
4016	1 1/8"	1/4	5/16	5/16
4018	9/16"	.....	3/8	3/8
4019	19/32"	5/16	.....	.....
4020	5/8"	.....	7/16	7/16
4021	21/32"	.....	7/16	.....
4022	11/16"	3/8	7/16	.....
4024	3/4"	.....	1/2	1/2
4025	25/32"	7/16	9/16	.....
4026	13/16"	.....	9/16	.....
4028	7/8"	1/2	9/16	9/16
4030	15/16"	.....	9/16	9/16
4031	31/32"	9/16	9/16	9/16
4032	1"	.....	3/4	1 1/16

### Double Square Sockets

No.	Opening	U. S. S. Bolt Size	U. S. S. or Amer. Std. Set Screw
4112	3/8"	.....	3/8
4114	7/16"	.....	7/16
4116	1 1/8"	1/4	3/8
4118	9/16"	.....	7/16
4120	5/8"	.....	9/16
4122	11/16"	3/8	9/16
4124	3/4"	.....	5/8
4128	7/8"	1/2	3/4
4132	1"	.....	1

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## 'CV' Chrome-Vanadium STANDARD SERIES HANDLES AND ATTACHMENTS

1/2 inch Square Drive

Chromium Plated

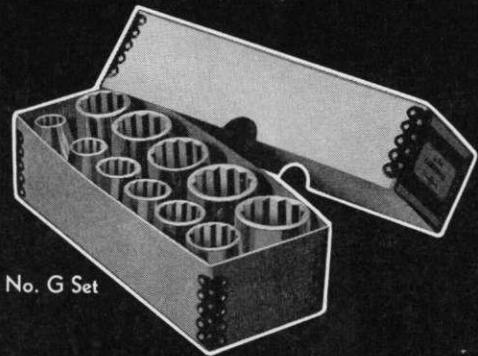
No.	Description	No.	Description
4081	Offset Handle, 11" long	4091E	Extension, 26" long
4082	"T" Handle, 6" long	4092	Cross Handle for 4090, 4091, 4091A, 4091E, 4096, 4096A, 8" long
4084	Brace, 14" long	4093	Ratchet with lug, 9 $\frac{5}{8}$ " long
4085	Speeder, 19 $\frac{3}{4}$ " long	4094	Extra Lug for Ratchet
4086	Offset Handle, 10" long	4095	Universal Joint
4087	Sliding "T" Handle, 11" long	4096	Hinge Handle, 15" long
4087A	Sliding "T" Handle, 15" long	4096A	Hinge Handle, 11" long
4090	Extension, 5" long	4098	Reversible Ratchet, 10" long
4090B	Extension, 2" long	4098A	Extension for 4098, 5" long
4091	Extension, 10" long		
4091A	Extension, 20" long		



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## STANDARD SERIES DOUBLE HEXAGON SOCKET SETS

1/2 inch Square Drive



No. G Set



No. D Set

### No. G Set

11 Pieces

Due to the constant use which sockets receive, and the unusually hard wear to which they are subjected, many mechanics often find it necessary to replace their assortment of sockets before it is necessary to buy new handles and attachments. The G Set is ideal for this purpose. Consisting of eleven double hexagon sockets in the most necessary sizes for automotive and tractor service work, each one is made of 'CV' Chrome-Vanadium steel, heavily chrome plated and packed in a convenient cardboard box.

The set is also ideal for the mechanic who wants to add to his present tool kit. Contains the following:

No.	Description
D14	7/16" Double Hexagon Socket
D16	1/2" " " "
D18	9/16" " " "
D19	19/32" " " "
D20	5/8" " " "
D22	11/16" " " "
D24	3/4" " " "
D25	25/32" " " "
D26	13/16" " " "
D28	7/8" " " "
D30	15/16" " " "

Net Weight 2 1/2 lb.

### No. D Set

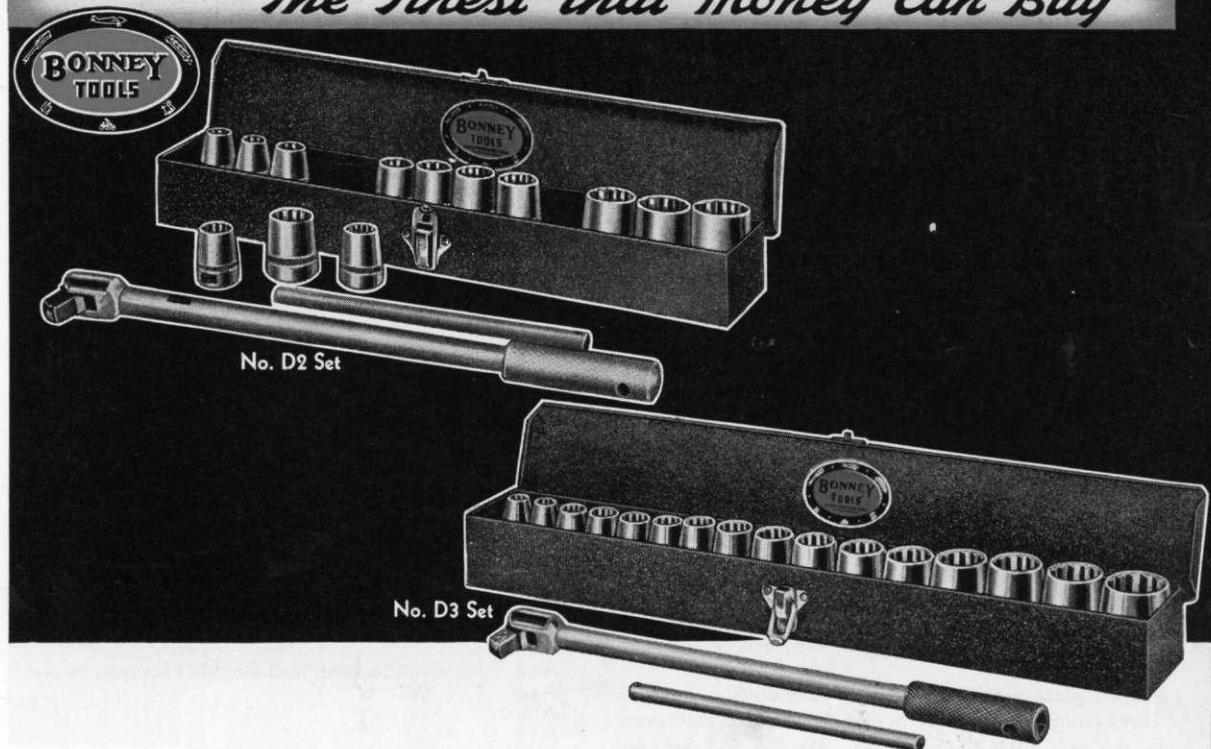
11 Pieces

A fine 1/2 inch square drive set of sockets in the most necessary sizes, with ratchet and lug. Packed in an attractively finished metal case, each one of the eleven pieces is made of 'CV' Chrome-Vanadium Steel, chrome plated and fully guaranteed. The metal box measures 11 3/8" x 3" x 1 3/4". Contents are as follows:

No.	Description
D14	7/16" Double Hexagon Socket
D16	1/2" " " "
D18	9/16" " " "
D19	19/32" " " "
D20	5/8" " " "
D22	11/16" " " "
D24	3/4" " " "
D25	25/32" " " "
D28	7/8" " " "
D32	1" " " "
4093	Ratchet, 9 5/8" long, with lug

Net Weight 5 1/2 lb.

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## STANDARD SERIES DOUBLE HEXAGON SOCKET SETS

1/2 inch Square Drive

### No. D2 Set

15 Pieces

BONNEY Socket Set No. D2 is a complete, compact, low priced socket set for heavy duty work, obtainable either in cardboard box or attractively finished metal carrying case. Made entirely of 'CV' Chrome-Vanadium Steel, all pieces are heavily chrome plated and will retain their original finish for many years to come. The box measures  $15\frac{1}{8}$ " x  $2\frac{3}{8}$ " x  $1\frac{3}{4}$ ". Contents are as follows:

No.	Description
D14	7/16" Double Hexagon Socket
D16	1/2" "
D18	9/16" "
D19	19/32" "
D20	5/8" "
D21	21/32" "
D22	11/16" "
D24	3/4" "
D25	25/32" "
D26	13/16" "
D28	7/8" "
D30	15/16" "
D32	1" "
4096	Hinge Handle, 15" long
4092	Cross Handle

### No. D3 Set

18 Pieces

THE D3 Socket Set is a complete, compact set for "all-around" service work. Each piece is made of 'CV' Chrome-Vanadium Steel, chrome plated and polished, and will withstand the most severe usage. Each one, of course, carries the usual Bonney Guarantee. All pieces are packed in an attractively finished, strong metal case which measures  $20\frac{1}{4}$ " x  $2\frac{1}{2}$ " x  $1\frac{7}{8}$ ". The set contains one each of the following:

No.	Description
D14	7/16" Double Hexagon Socket
D16	1/2" "
D18	9/16" "
D19	19/32" "
D20	5/8" "
D21	21/32" "
D22	11/16" "
D24	3/4" "
D25	25/32" "
D26	13/16" "
D28	7/8" "
D30	15/16" "
D32	1" "
D34	11/16" "
D36	11/8" "
D40	11/4" "
4096	Hinge Handle, 15" long
4092	Cross Handle

Net Weight in Metal Box 6 1/4 lbs.

Net Weight 8 1/2 lbs.



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## STANDARD SERIES STRAIGHT WALL DOUBLE HEXAGON SOCKET SETS

1/2 inch Square Drive



### No. A1 Set

13 Pieces

MANY mechanics find straight wall double hexagon sockets more convenient for their work, and for that reason prefer this type of socket to others. The No. A1 Set contains practically all sizes necessary for all ordinary work, and these sockets make a fine addition to any mechanic's tool kit. All pieces are made of 'CV' Chrome-Vanadium Steel, chrome plated and polished. Included are one each of the following:

No.	Description
A14	7/16" Straight Wall Double Hexagon Socket
A16	1/2"
A18	9/16"
A19	19/32"
A20	5/8"
A22	11/16"
A24	3/4"
A25	25/32"
A26	13/16"
A28	7/8"
A30	15/16"
A31	31/32"
A32	1"
4096	Hinge Handle, 15" long
4092	Cross Handle

Net Weight 2 1/4 lb.

### No. A2 Set

15 Pieces

A very fine, complete set of straight wall double hexagon sockets and hinge handle that will take care of most jobs. All pieces are made of 'CV' Chrome-Vanadium Steel, heavily chrome plated and polished. Each piece carries the usual Bonney guarantee. Packed in an attractively finished metal case measuring 15 7/8" x 2 1/4" x 1 5/8". This set contains one each of the following pieces:

No.	Description
A14	7/16" Straight Wall Double Hexagon Socket
A16	1/2"
A18	9/16"
A19	19/32"
A20	5/8"
A22	11/16"
A24	3/4"
A25	25/32"
A26	13/16"
A28	7/8"
A30	15/16"
A31	31/32"
A32	1"

Net Weight in Metal Box 6 1/4 lb.

### No. A3 Set

13 Pieces

A fine set of straight wall double hexagon Sockets for use with all 1/2 inch square drive handles and attachments. It makes a dandy set for those who want to replace or add to present socket equipment.

Made entirely of 'CV' Chrome-Vanadium Steel, chrome plated and polished, all sockets are packed in a metal tray having hooks for hanging on the side of your tool box, and moveable metal strip for holding sockets in place when not in use. The set contains one each of the following sockets:

No.	Description
A14	7/16" Straight Wall Double Hexagon Socket
A16	1/2"
A18	9/16"
A19	19/32"
A20	5/8"
A22	11/16"
A24	3/4"
A25	25/32"
A26	13/16"
A28	7/8"
A30	15/16"
A31	31/32"
A32	1"

Tray measures 13 7/8" x 1 1/2" x 1".

Net Weight 3 lbs.



## No. RH SOCKET SET

36 Pieces

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Money Can Buy*



HERE is a set any mechanic will be glad to own. It includes all popular sockets with double hexagon and double square openings in  $\frac{1}{2}$ " and  $\frac{3}{4}$ " square drive with an assortment of handles and attachments to handle practically any job requiring tools of this type on passenger cars, trucks, buses, tractors, industrial and farm machinery.

All pieces are made of Bonney 'CV' Chrome-Vanadium Steel, heavily chrome plated and will retain their original finish indefinitely. Every piece is fully guaranteed.

The complete set is packed in a sturdy metal case with removable tray, padlock hasp and end carrying handles measuring 25" x  $8\frac{1}{2}$ " x  $6\frac{1}{4}$ ". Contents are as follows:

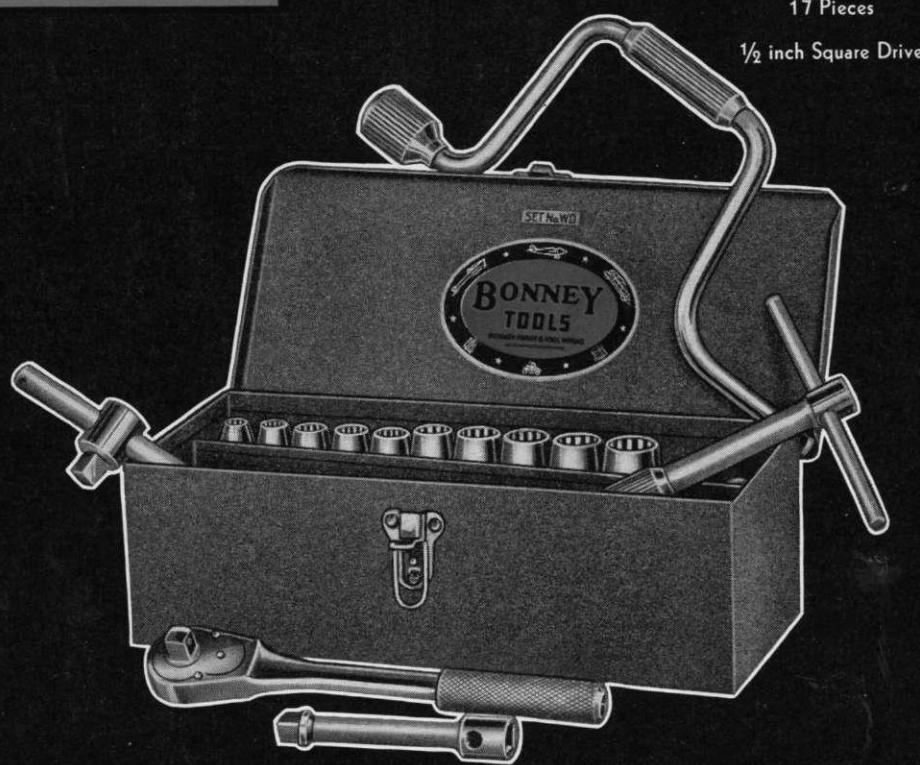
No.	Description	No.	Description
D14	$\frac{1}{2}$ " SQUARE DRIVE SOCKETS AND ATTACHMENTS	4091	Extension, 10" long
D16	$\frac{7}{16}$ " Double Hexagon Socket	4092	Cross Handle, 8" long
D18	$\frac{9}{16}$ " "	4095	Universal Joint
D19	$\frac{19}{32}$ " "	4096	Hinge Handle, 15" long
D20	$\frac{5}{8}$ " "	4098	Reversible Ratchet, 10" long
D21	$\frac{21}{32}$ " "	HD30	$\frac{3}{4}$ " SQUARE DRIVE SOCKETS AND ATTACHMENTS
D22	$\frac{11}{16}$ " "	HD31	$\frac{15}{16}$ " Double Hexagon Socket
D24	$\frac{3}{4}$ " "	HD32	$3\frac{1}{32}$ " "
D25	$\frac{25}{32}$ " "	HD34	$1\frac{1}{16}$ " "
D26	$\frac{13}{16}$ " "	HD36	$1\frac{1}{8}$ " "
D28	$\frac{7}{8}$ " "	HD40	$1\frac{1}{4}$ " "
4114	$\frac{7}{16}$ " Double Square Socket	HD44	$1\frac{3}{8}$ " "
4116	$\frac{1}{2}$ " "	HD46	$1\frac{7}{16}$ " "
4118	$\frac{9}{16}$ " "	HD48	$1\frac{1}{2}$ " "
4001	Drag Link Socket	HD52	$1\frac{5}{8}$ " "
4084	Brace, 14" long	4290	Extension, $8\frac{1}{2}$ " long
4087	Sliding "T" Handle, 11" long	4291	Extension, 17" long
4090	Extension, 5" long	4287	Sliding "T" Handle, 20" long

Net Weight 48 lbs.



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## Nos. WD and WS STANDARD SERIES SOCKET SETS



THE Nos. WD and WS Sets are identical except that the No. WD Set contains double hexagon sockets, while the No. WS Set contains straight wall double hexagon sockets. Each set contains sockets with openings that find the most general use plus an excellent assortment of handles and attachments.

Each piece is made of Bonney 'CV' Chrome-Vanadium Steel, carefully heat-treated and heavily chrome plated.

The substantial metal box is attractively finished, has carrying handle and measures 13 $\frac{3}{4}$ " x 5 $\frac{1}{2}$ " x 3 $\frac{7}{8}$ ".

Contents are as follows:

No. WD Set		No. WS Set	
Socket Number	Double Hexagon Socket	Socket Number	Straight Wall Double Hexagon Socket
D14	7/16"	A14	7/16"
D16	1/2"	A16	1/2"
D18	9/16"	A18	9/16"
D19	19/32"	A19	19/32"
D20	5/8"	A20	5/8"
D22	11/16"	A22	11/16"
D24	3/4"	A24	3/4"
D25	25/32"	A25	25/32"
D26	13/16"	A26	13/16"
D28	7/8"	A28	7/8"

In addition to the above sockets, each set contains one each of the following handles and attachments:

No.	Description	No.	Description
4084	Brace, 14" long	4092	Cross Handle, 8" long
4087	Sliding "T" Handle, 11" long	4095	Universal Joint
4090	Extension, 5" long	4098	Reversible Ratchet, 10" long
4091	Extension, 10" long		

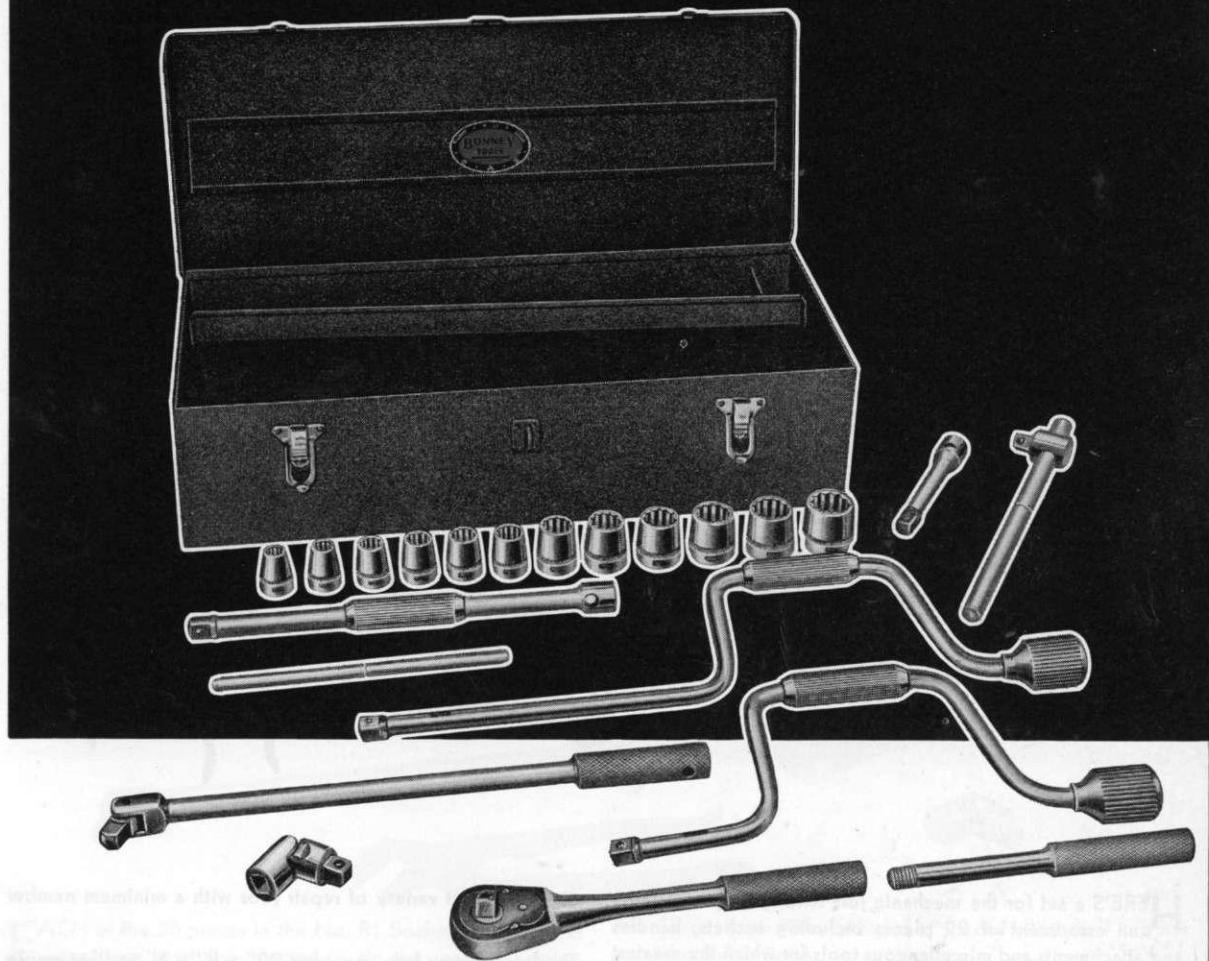
Net Weight, each set, 18 lbs.



# Nos. RD1 and RS1 STANDARD SERIES SOCKET SETS

22 Pieces  
1/2 inch Square Drive

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THESE two sets are similar in every way except that the No. RD1 Set has sockets with double hexagon openings and the No. RS1 Set has straight wall sockets with double hexagon openings.

The wide variety of handles and attachments included permits taking care of practically any job where tools of this type may be used.

All pieces are made of Bonney 'CV' Chrome-Vanadium

Steel, heavily chrome plated and fully guaranteed. A feature of these sets is the extension for the No. 4098 Reversible Ratchet, permitting the use of the ratchet not only for work in close quarters, but also with the extension where extra leverage is required.

The strong metal box which measures 20" x 8" x 5" has ample room for adding additional tools from time to time. Sockets included are as follows:

No. RD1 Set		No. RD1 Set		No. RS1 Set		No. RS1 Set	
Socket No.	Double Hexagon Openings	Socket No.	Double Hexagon Openings	Socket No.	Straight Wall Double Hexagon Opening	Socket No.	Straight Wall Double Hexagon Opening
D14	7/16"	D24	3/4"	A14	7/16"	A24	3/4"
D16	1/2"	D25	25/32"	A16	1/2"	A25	25/32"
D18	9/16"	D26	13/16"	A18	9/16"	A26	13/16"
D19	19/32"	D28	7/8"	A19	19/32"	A28	7/8"
D20	5/8"	D30	15/16"	A20	5/8"	A30	15/16"
D22	11/16"	D32	1"	A22	11/16"	A32	1"

Handles and attachments included in both sets, are as follows:

No.	Description	No.	Description
4084	Brace, 14" long	4092	Cross Handle, 8" long
4085	Speeder, 19 3/4" long	4095	Universal Joint
4087	Sliding "T" Handle, 11" long	4096	Hinge Handle, 15" long
4090	Extension, 5" long	4098	Reversible Ratchet, 10" long
4091	Extension, 10" long	4098A	Extension for 4098, 5" long

Net Weight, either sets 22 lbs.



*The Finest that  
Money Can Buy*

## No. JI SOCKET and TOOL SET

29 Pieces

1/2 inch Square Drive Sockets and Attachments



HERE'S a set for the mechanic just starting out, containing an assortment of 29 pieces including sockets, handles and attachments and miscellaneous tools for which the greatest every day need will be found.

It is inexpensive, yet every piece is of the highest quality. The contents were carefully selected to enable the handling

of the greatest variety of repair jobs with a minimum number of tools.

The large roomy box, measures 20" x 8" x 5" and has ample room for the addition of other tools from time to time. It is equipped with carrying handle, end catches and padlock hasp.

Contents include one each of the following:

No.	Description	No.	Description
D14	7/16" Double Hexagon Socket	B420	Channellock Adjustable Plier, 1/2" to 1 1/8" capacity
D16	1/2" " " "	C2	Flat Chisel, 7/16" cut
D18	9/16" " " "	C4	" " 3/4" "
D20	5/8" " " "	C34	Center Punch
D22	11/16" " " "	C29	Pin Punch, 3/16" point
D24	3/4" " " "	E02	Screw Driver, (neon tube) Pocket size, 2 1/4" blade
D26	13/16" " " "	W03	Wood Handle Screw Driver, 3" blade
D28	7/8" " " "	W06	" " " " 6" "
4090	Extension, 5" long	W010	" " " " 10" "
4091	Extension, 10" long	WP2	" " " " for No. 5
4092	Cross Handle, 8" long	PH7	to No. 9 inc. Phillips Screws
4093	Ratchet (not reversible) 9 5/8" long, with lug	2628	1 lb. Ball Pein Hammer
4096	Hinge Handle, 15" long		Adjustable Hack Saw Frame with No. F1018 Blade
1161	7/16" Bonaloy TuType Wrench		
1162	1/2" " " "		
1163	9/16" " " "		
1164	5/8" " " "		

Net Weight 22 lbs.

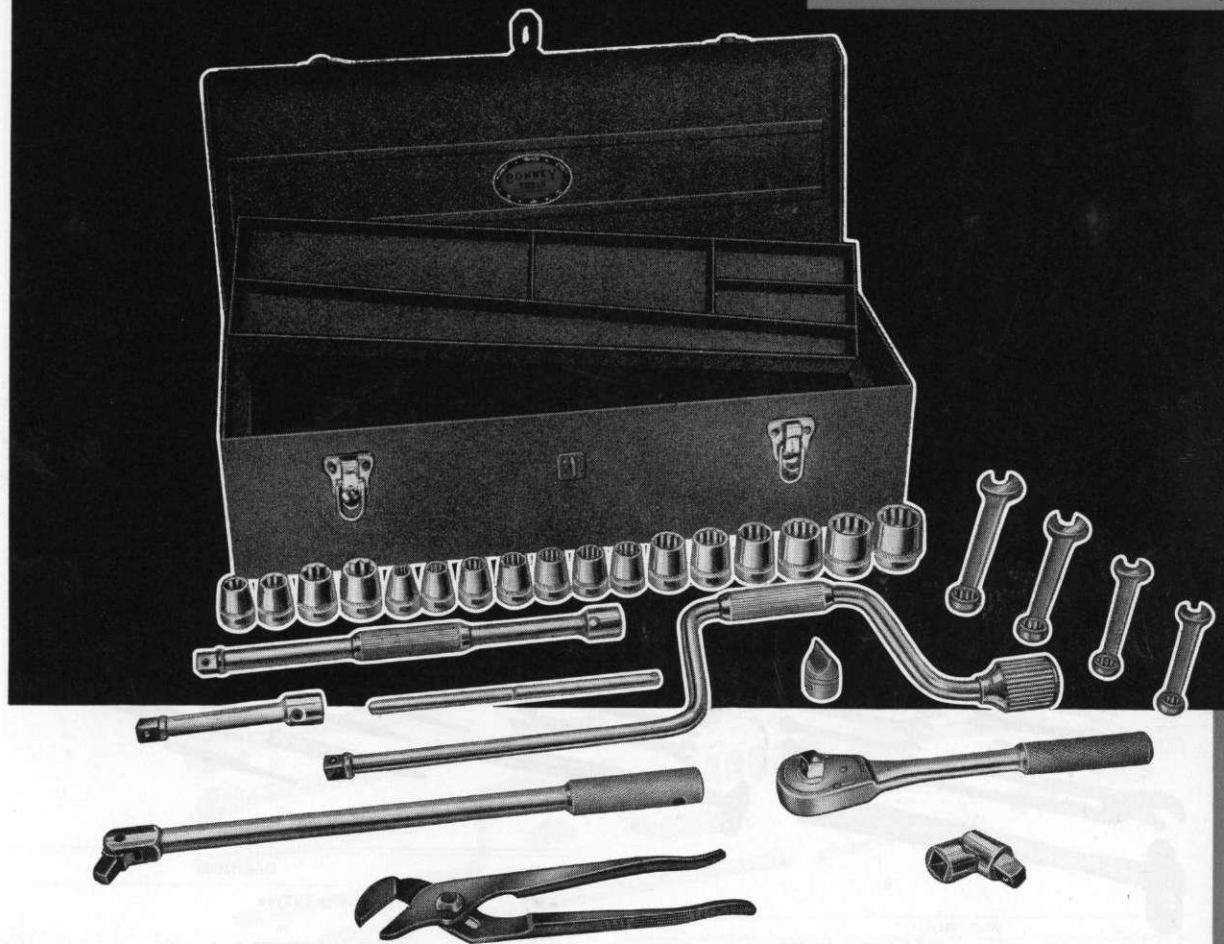


# No. B1 SOCKET and TOOL SET

30 Pieces

1/2 inch Square Drive Sockets and Attachments

*The Finest that  
Money Can Buy*



**E**ACH of the 30 pieces in the No. B1 Socket and Tool Set have been carefully selected to do the greatest number of jobs. It makes a perfect tool kit for the busy mechanic.

All sockets, handles and attachments are made of Bonney 'CV' Chrome-Vanadium Steel, while the four TuType Wrenches are drop forged of Bonaloy Steel. These pieces are all heavily chrome plated to give them a durable, rust-proof finish.

The Channellock Plier is forged of special alloy steel and has natural polished finish.

All pieces are packed in a sturdy, metal case with attractive finish that measure 20 1/2" x 8" x 5". It is equipped with carrying handle, end catches, padlock hasp and sliding, removable tray.

Contents of the set are as follows:

No.	Description	No.	Description
D14	7/16" Double Hexagon Socket	4118	9/16" Double Square Socket
D16	1/2" " " "	4120	5/8" " " "
D18	9/16" " " "	4001	15/16" Drag Link Socket
D19	19/32" " " "	4085	Speeder, 19 3/4" long
D20	5/8" " " "	4090	Extension, 5" long
D21	21/32" " " "	4091	Extension, 10" long
D22	11/16" " " "	4092	Cross Handle, 8" long
D24	3/4" " " "	4095	Universal Joint
D25	25/32" " " "	4096	Hinge Handle, 15" long
D26	13/16" " " "	4098	Reversible Ratchet, 10" long
D28	7/8" " " "	1161	7/16" Bonaloy TuType Wrench
D30	15/16" " " "	1162	1/2" " " "
D32	1" " " "	1163	9/16" " " "
4114	7/16" Double Square Socket	1164	5/8" " " "
4116	1/2" " " "	B420	Channellock Adjustable Plier, 1/2" to 1 1/8" capacity

Net Weight 24 lbs.

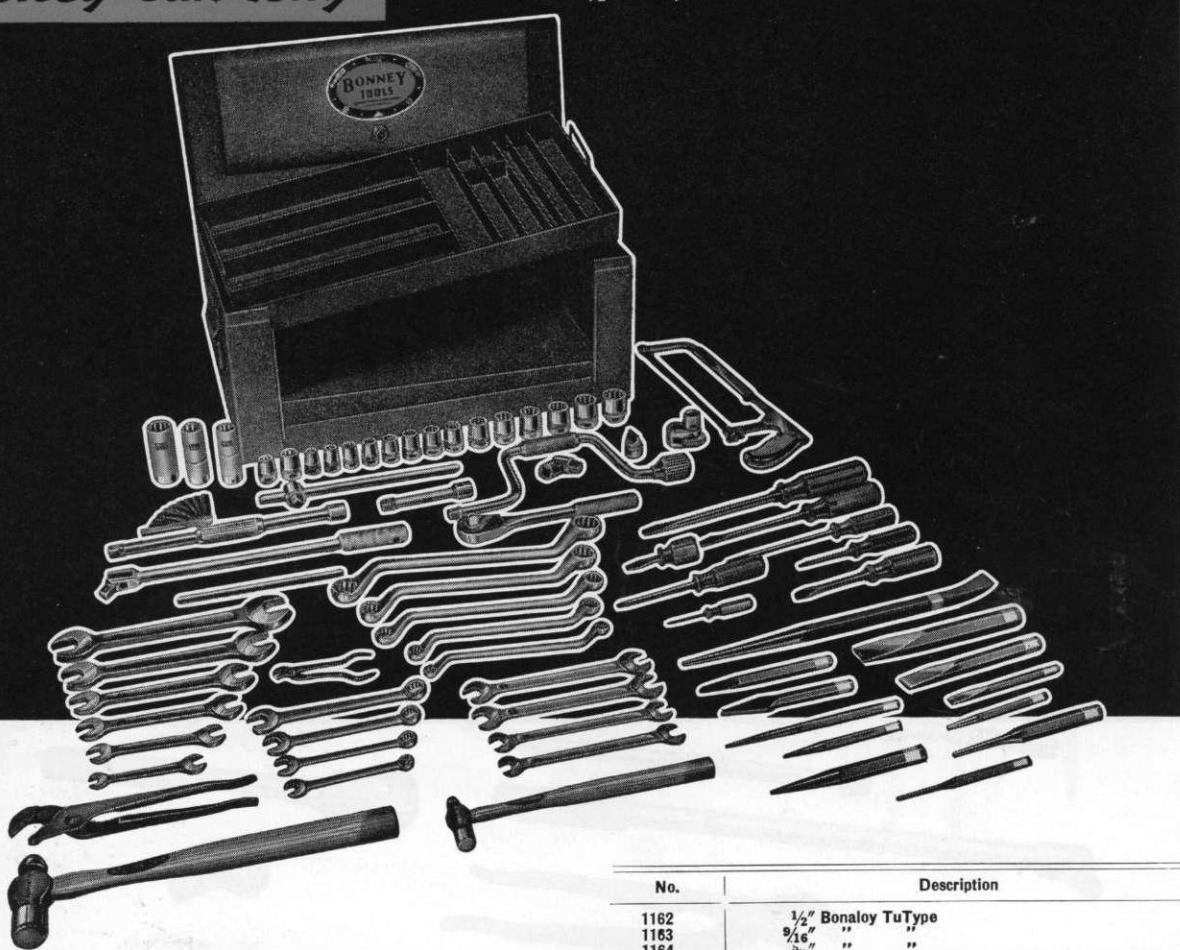


# No. BB1 SOCKET and TOOL SET

*The Finest that  
Money Can Buy*

74 Pieces

1/2 inch Square Drive Sockets and Attachments



**CONTAINING** 72 tools that any mechanic will find need for on a great majority of jobs, the No. BB1 Socket and Tool Set makes an ideal kit.

All pieces are packed in a strong roomy metal chest measuring 22 $\frac{3}{4}$ " x 10 $\frac{3}{4}$ " x 9" with removable tray. It's an excellent box for any mechanic's main tool kit.

Contents include the following:

No.	Description
D14	7/16" Double Hexagon Socket
D16	1/2" " " "
D18	9/16" " " "
D19	19/32" " " "
D20	5/8" " " "
D21	21/32" " " "
D22	11/32" " " "
D24	3/4" " " "
D25	25/32" " " "
D26	13/16" " " "
D28	7/8" " " "
D30	15/16" " " "
D31	31/32" " " "
D32	1" " " "
LD26T	13/16" Extra Deep Double Hexagon Socket
LD28T	13/16" " " " " "
LD32	1" " " " " "
4116	1/2" Double Square Socket
4118	9/16" " " "
2591	Stud Wrench, 5/16" to 3/4" capacity
4001	15/16" Drag Link Socket
4084	Brace, 14" long
4087	Sliding "T" Handle, 11" long
4090	Extension, 5" long
4091	Extension, 10" long
4092	Cross Handle, 8" long
4095	Universal Joint
4096	Hinge Handle, 15" long
4098	Reversible Ratchet, 10" long
WRENCHES	
1161	7/16" Bonaloy TuType

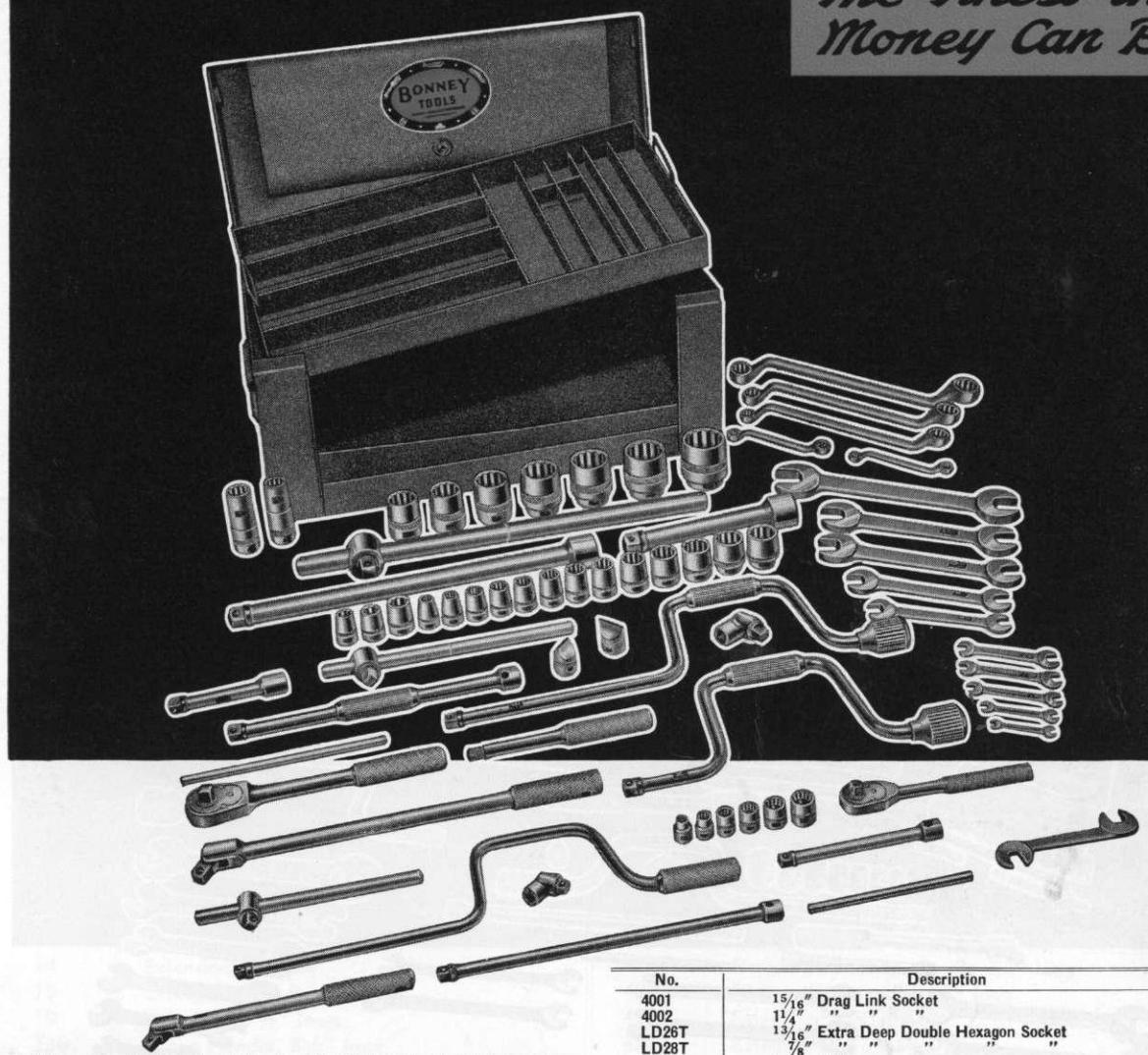
No.	Description
1162	1/2" Bonaloy TuType
1163	9/16" " "
1164	5/8" " "
3723	3/8" & 7/16" ZENEL Engineers'
3025	1/2" & 19/32" " "
3027C	9/16" & 11/16" " "
3028S	5/8" & 25/32" " "
3731A	3/4" & 7/8" " "
3033C	15/16" & 1" " "
3422	1/2" & 9/16" ZENEL Tappet (two wrenches)
3423	5/8" & 11/16" " "
2804L	3/8" & 7/16" Bonaloy Box Wrench
2805L	1/2" & 9/16" " "
2807A	5/8" & 11/16" " "
2808	3/4" & 7/8" " "
15/16"	15/16" & 1" " "
CHISELS and PUNCHES	
C2	Flat Chisel, 7/16" cut
C4	Flat Chisel, 3/4" cut
C6	Flat Chisel, 1" cut
C12	Cape Chisel 1/4" cut
C15	Diamond Point Chisel, 1/4" cut
C21	Solid Punch, 1/16" point
C23	Solid Punch, 1/8" point
C25	Long Taper Punch, 5/32" point
C28	Pin Punch, 1/16" point
C30	Pin Punch, 1/8" point
C34	Center Punch
C38	Pry or Pinch Bar, 16" long
SCREW DRIVERS	
001	Pocket Size, 2" blade
E03	Electricians' (neon tube), 3" blade
S01	Adjusting, 13/4" blade
S04	Square Shank, 4" blade
06	Round Shank, 6" blade
08	Round Shank, 8" blade
006	Electricians', 8" blade
CP2	for Nos. 5 to 9 inc. Phillips Screws
MISCELLANEOUS	
PH2	3 1/2 oz. Ball Pein (Gasket Hammer)
PH7	1 lb. Ball Pein Hammer
B420	Channellock Adjustable Plier, 1/2" to 1 1/8" capacity
B424	Channellock Ignition Plier
2628	Adjustable Hack Saw Frame with No. F1018 blade
K54	Standard Feeler Gauge

Net Weight 57 lbs.



# No. MC1 BENCH SET

70 Pieces



**T**HE assortment of tools included in the No. MC1 Bench Set is well adapted for "all around" work in the garage and service station. Mechanics find it an "all purpose" set, hard to beat. Everyone of the 70 pieces is light in weight, well balanced, sturdily made and fully guaranteed. The attractively finished metal chest measures 22 $\frac{3}{4}$ " x 10 $\frac{3}{4}$ " x 9"

and includes removable tray. Included are the following pieces:

No.	Description	No.	Description
<b>3/8" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>			
T10	5/16" Double Hexagon Socket	4001	15/16" Drag Link Socket
T12	3/8" "	4002	11/4" "
T14	7/16" "	LD26T	13/16" Extra Deep Double Hexagon Socket
T16	1/2" "	4084	7/8" "
T18	9/16" "	4085	Brace, 14" long
T20	5/8" "	4087	Speeder, 19 $\frac{3}{4}$ " long
T3	Universal Joint	4089	Sliding "T" Handle, 11" long
T4	Extension, 6" long	4090	Extension, 5" long
T5	Extension, 12" long	4091	Extension, 10" long
T9	Speeder, 17 $\frac{1}{2}$ " long	4092	Cross Handle, 8" long
T30	Hinge Handle, 8 $\frac{1}{2}$ " long	4095	Universal Joint
T32	Cross Handle, 6" long	4096	Hinge Handle, 15" long
T35	Reversible Ratchet, 7 $\frac{1}{2}$ " long	4098	Reversible Ratchet, 10" long
T36	Sliding "T" Handle, 8" long	4098A	Extension for No. 4098, 5" long
<b>1/2" SQUARE DRIVE SOCKETS AND ATTACHMENTS</b>			
4114	7/16" Double Square Socket	HD34	3/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS
4116	1/2" "	HD36	15/16" Double Hexagon Socket
4118	9/16" "	HD40	11/8" "
D14	7/16" Double Hexagon Socket	HD44	13/16" "
D16	1/2" "	HD46	17/16" "
D18	9/16" "	HD48	11/4" "
D19	19/32" "	HD52	15/8" "
D20	5/8" "	4287	Sliding "T" Handle, 20" long
D21	21/32" "	4290	Extension, 8 $\frac{1}{2}$ " long
D22	11/16" "	4291	Extension, 17" long
D24	3/4" "	H10	<b>WRENCHES</b>
D26	13/16" "	H12	3/16" & 7/32" Miniature Open End
D28	7/8" "	H14	1/4" & 9/32" "
D30	15/16" "	H16	5/16" & 11/32" "
D31	31/16" "	H18	7/8" & 13/32" "
D32	1" "	1725B	7/32" & 9/16" "CV Engineers"
		1027A	5/8" & 11/16" "
		1731	3/2" & 13/16" "
		1033A	7/8" & 15/16" "
		1735	7/8" & 11/8" "
		2725B	1/2" & 9/16" Right Angle
		2804	7/8" & 7/16" Bonaloy Double Hexagon Box
		2805	7/2" & 9/16" "
		2807A	5/8" & 11/16" "
		2808	3/2" & 7/8" "
		2810	15/16" & 1" "

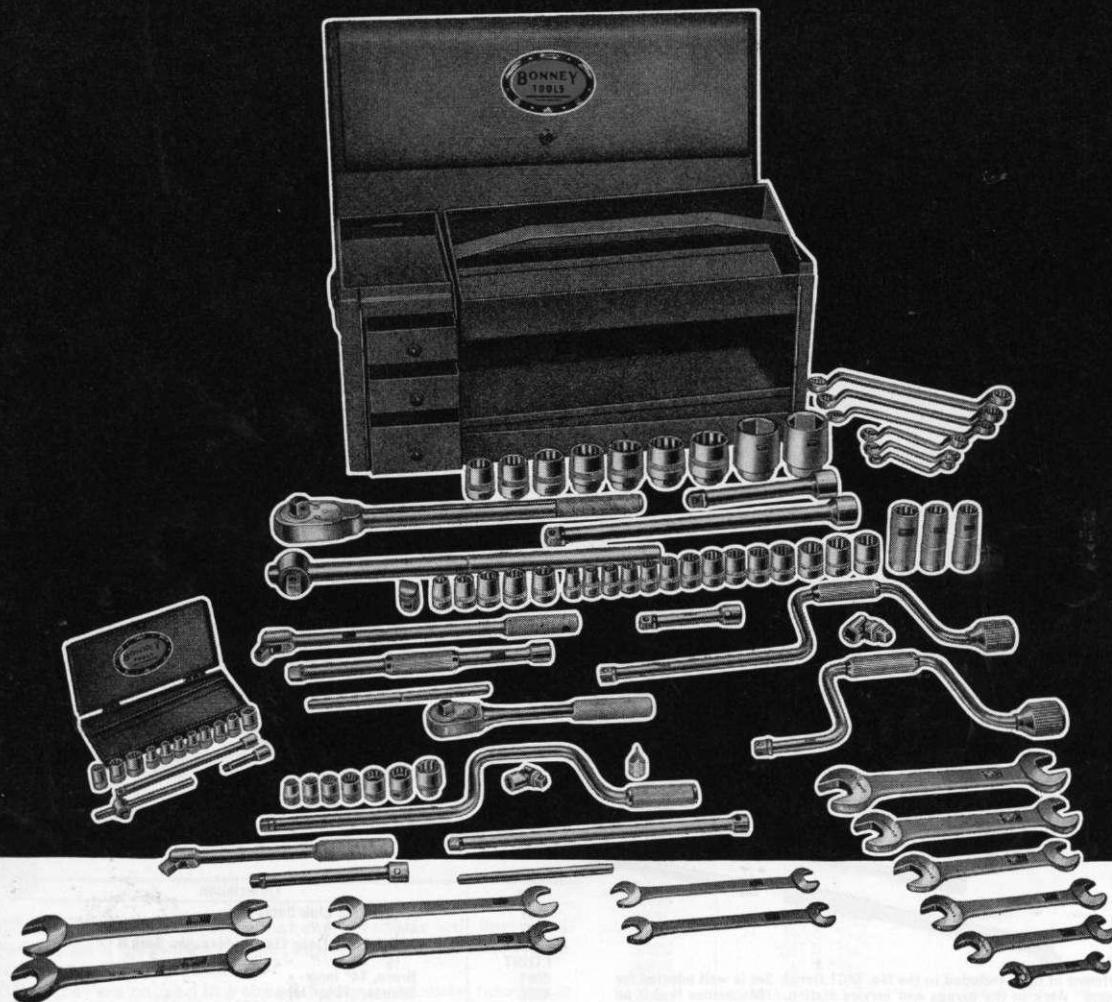
Net Weight 60 lbs.

The Finest that Money Can Buy



*The Finest that  
Money Can Buy*

No. AB  
SOCKET and WRENCH SET  
90 Pieces



**A**N unusually fine set of sockets, handles and attachments and a carefully selected assortment of wrenches to take care of nuts from the smallest to the largest sizes found on cars, trucks and buses.

With this assortment the mechanic is assured that he has a set of tools for every practical purpose and one that is fully guaranteed.

The metal chest furnished with the tools has a removable tray and three drawers. It is equipped with end carrying handles, lock and key. It measures  $26\frac{1}{2}'' \times 12'' \times 11\frac{1}{4}''$ .

Complete contents of the No. AB Socket and Wrench Set are listed on page 29.



## CONTENTS

## No. AB SOCKET and WRENCH SET

*The Finest that  
Money Can Buy*

**Net Weight 107 lbs.**



*The Finest that  
Money Can Buy*

No. AA2

## SOCKET and TOOL SET

147 Pieces



THE Bonney No. AA2 Socket and Tool Set contains the finest and most complete assortment of tools ever assembled in one kit. 147 pieces—including of almost every description to do practically any job encountered.

Complete sets of sockets with handles and attachments, box wrenches, open end wrenches, tappet wrenches, pliers, hammers, punches, chisels, screw drivers and special tools—all are included.

The complete assortment is packed in a massive metal chest, attractively finished, which has removable tray and three convenient drawers, lock, key and end carrying handles. The box measures  $26\frac{1}{2}'' \times 12'' \times 11\frac{1}{4}''$ . It will last practically a lifetime.

Complete list of contents of the No. AA2 Set is given below and on page 31.

## CONTENTS No. AA2 SOCKET and TOOL SET

No.	Description	No.	Description
V6	1/4" SQ. DR. SOCK. AND ATTACHMENTS	V17	Sliding "T" Handle, 4 1/2" long
V7	3/16" Hexagon Socket	V18	Extension, 6" long
V8	7/32" "	V19	Extension, 2" long
V9	1/4" "		The 14 pieces listed above are packed in a separate metal case which measures 6 1/4" x 3" x 1".
V10	5/16" Double Hexagon Socket	T12	3/8" SQ. DR. SOCK. AND ATTACHMENTS
V11	11/32" "	T14	3/8" Double Hexagon Socket
V12	3/8" "	T16	7/16" "
V14	7/16" "	T18	1/2" "
VS8	1/4" Double Square Socket	T20	9/16" "
VS10	5/16" "		5/8" "
VS12	3/8" "		



# CONTENTS NO. AA2 SOCKET AND TOOL SET (continued)

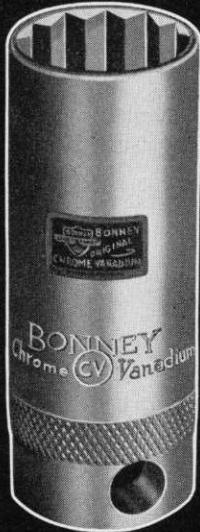
*The Finest that  
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No.	Description	No.	Description
T22	3/8" SQ. DR. SOCK. AND ATTACH. (Cont.)	E46	BOX WRENCHES (Cont.)
T24	11/16" Double Hexagon Socket	2804	5/16" & 11/32" Extra-Small, Dble. Hex. Open.
T27	3/4" " "	2805	3/8" & 7/16" Short Type, " " "
T3	Drag Link Socket	2805L	1/2" & 9/16" " " "
T4	Universal Joint	2807A	1/2" & 9/16" Long Type, Dble. Hex. Open.
T5	Extension, 6" long	2808	5/8" & 11/16" " " "
T9	Extension, 12" long	2810	3/4" & 7/8" Long Type, Dble. Hex. Open.
T30	Speeder, 17 1/2" long		15/16" & 1" " " "
T31	Hinge Handle, 8 1/2" long	H10	ZENEL ENGINEERS' WRENCHES
T32	Extension, 3" long	H12	3/16" & 7/32" Openings, Miniature
T35	Cross Handle, 6" long	H14	1/4" & 9/32" " " "
TU14	Reversible Ratchet, 7" long	H16	5/16" & 11/32" " " "
TU16	7/16" Flexible Double Hexagon Socket	H18	3/8" & 7/16" " " "
TU18	1/2" " " " "	3723A	13/32" & 15/32" " " "
TU20	9/16" " " " "	3025	3/8" & 1/2" Openings
	5/8" " " " "	3725B	1/2" & 19/32" " " "
D14	1/2" SQ. DR. SOCK. AND ATTACHMENTS	3027C	1/2" & 9/16" " " "
D16	7/16" Double Hexagon Socket	3028S	9/16" & 11/16" " " "
D18	1/2" " " " "	3731A	5/8" & 25/32" " " "
D19	9/16" " " " "	3033C	3/4" & 7/8" " " "
D20	19/32" " " " "		15/16" & 1" " " "
D21	5/8" " " " "	3422	ZENEL TAPPET WRENCHES
D22	21/32" " " " "	3424	(Two each) 1/2" & 9/16" Openings
D24	11/16" " " " "	3426	(Two each) 5/8" & 11/16" " " "
D25	3/4" " " " "		(Two each) 3/4" & 7/8" " " "
D26	25/32" " " " "	B6	PLIERS
D28	13/16" " " " "	B10	6" Combination
D30	7/8" " " " "	B11	10" "
D31	15/16" " " " "	B17	5" Thin Nose Combination
D32	31/32" " " " "	B23	Diagonal Cutting
4001	Drag Link Socket	B420	8" Lineman's Cutting
4114	7/16" Double Square Socket	B424	Channellock Adjustable, 1/2" to 1 1/8" cap.
4116	1/2" " " " "		" Ignition
4118	9/16" " " " "	PH2	HAMMERS
4120	5/8" " " " "	PH7	3 1/2 oz. Ball Pein
4124	3/4" " " " "	PH10	1 lb. " "
LD26T	13/16" Extra-Deep Socket, 3 1/4" long	PH20	2 lb. " "
LD28T	7/8" " " " "		1 lb. Soft Face
LD32	1" " " " "	C2	PUNCHES AND CHISELS
LD36	11/8" " " " "	C4	Flat, 7/16" cut
4084	Brace, 14" long	C6	" 3/4" "
4085	Speeder, 20" long	C21	" 1" "
4087	Sliding "T" Handle, 11" long	C26	Solid Punch, 1/16" point
4090	Extension, 5" long	C28	Long Taper Punch, 3/16" point
4090B	Extension, 2" long	C29	Pin Punch, 1/8" point
4091	Extension, 10" long	C34	" 3/16" "
4092	Cross Handle, 8" long	C36	Center Punch
4095	Universal Joint	C38	Rivet Buster, 5/8" cut
4096	Hinge Handle, 15" long		Pry or Pinch Bar, 16" long
4098	Reversible Ratchet, 10" long	001	SCREW DRIVERS
	3/4" SQ. DR. SOCK. AND ATTACHMENTS	CP2	Pocket Size, 2" blade
HD32	1" Double Hexagon Socket	006	for Phillips Screws Nos. 5 to 9 inc.
HD34	1 1/16" " " "	0010	Electricians', 6" blade
HD36	1 1/8" " " "	E03	Electricians', 10" blade
HD40	1 1/4" " " "	SO1	Electricians' (Neon Tube)
HD44	1 3/8" " " "	SO4	Adjusting, 1 3/4" blade
HD46	1 7/16" " " "	06	Square Shank, 4" blade
HD48	1 1/2" " " "	08	Round Shank, 6" "
HD52	1 5/8" " " "	SO12	Round Shank, 8" "
4258	1 13/16" Hexagon Socket		Square Shank, 12" "
4264	9" " " "	2591	MISCELLANEOUS
4265	Reversible Ratchet, 20" long	2881	Stud Wrench, 5/16" to 3/4"
4287	Sliding "T" Handle, 20" long	K8	Starter and Manifold Wrench
4290	Extension, 8 1/2" long	K52	8" Handy Holding Tool
4291	Extension, 17" long	K53	Ignition Feeler Gauge
	BOX WRENCHES	2628	Universal Master Feeler Gauge
E40	3/16" & 13/64" Extra-Small, Hexagon Opening		Adjustable Hack Saw Frame with No. F1018
E42	7/32" & 15/64" " " "		blade
E44	1/4" & 9/32" " " " Dble. Hex. Open.		

Net weight 128 lbs.



*The Finest that  
Money Can Buy*



## 'CV' Chrome-Vanadium EXTRA-DEEP SOCKETS

1/2 inch Square Drive

### Chromium Plated

BONNEY Extra-Deep Sockets find many applications in automotive service work, but are especially suitable for removing and replacing spark plugs. Their overall length, 3 1/4 inches, and the exceptional depth of their openings, give them an added advantage over ordinary

sockets of similar type. They are made of Bonney 'CV' Chrome-Vanadium Steel, are carefully heat-treated, heavily chrome plated and polished to a high permanent lustre. They are designed with 1/2" square drive and have hole for use with No. 4092 Cross Handle.

No.	Openings	Length	Diameter
LD16	1/2	3 1/4	3/4
LD18	9/16	3 1/4	13/16
LD20	5/8	3 1/4	7/8
LD22	11/16	3 1/4	15/16
LD24	3/4	3 1/4	11/32
LD25	25/32	3 1/4	11/16
LD26T	13/16	3 1/4	11/16
LD28	7/8	3 1/4	13/16
LD28T	7/8	3 1/4	13/32
LD30	15/16	3 1/4	11/4
LD32	1	3 1/4	13/8
LD32T	1	3 1/4	19/32
LD34	11/16	3 1/4	17/16
LD36	1 1/8	3 1/4	1 1/2

### No. LD1 Spark Plug Set

The Bonney No. LD1 Spark Plug Set contains the six sockets which will remove and replace spark plugs in practically all makes of cars and trucks. One each of the following sockets are included:

Nos. LD20

LD22

Nos. LD26T

LD28T

Nos. LD30

LD32

All are made of Bonney 'CV' Chrome-Vanadium Steel, chrome plated and polished. They may be used with any 1/2" square drive handle or attachment and have holes drilled in them for use with No. 4092 Cross Handle. They are packed in a convenient cardboard box.



### Chart of Spark Plug Sockets for Passenger Cars

Make	1938	1939	1940	1941	Make	1938	1939	1940	1941
American Bantam..	LD26T	LD26T	LD26T	LD26T	Lincoln Zephyr....	LD26T	LD26T	LD26T	LD26T
Buick.....	LD26T	LD26T	LD26T	10MM Plug	Mercury.....	LD26T	LD26T	LD26T	LD26T
Cadillac.....	LD26T	10MM Plug	10MM Plug	10MM Plug	Nash.....	LD26T	LD26T	LD26T	LD26T
Chevrolet.....	LD26T	LD26T	LD26T	10MM Plug	Oldsmobile.....	LD26T	LD26T	LD26T	LD26T
Chrysler.....	LD26T	LD26T	LD26T	LD26T	Overland.....	LD26T	LD26T	LD26T	LD26T
Crosley.....	LD26T	LD26T	LD26T	LD26T	Packard.....	10MM Plug	10MM Plug	10MM Plug	10MM Plug
DeSoto.....	LD26T	LD26T	LD26T	LD26T	Pierce-Arrow.....	LD26T	LD26T	LD26T	LD26T
Dodge.....	LD26T	LD26T	LD26T	LD26T	Plymouth.....	LD26T	LD26T	LD26T	LD26T
Ford.....	LD26T	LD26T	LD26T	LD26T	Pontiac.....	LD26T	LD26T	LD26T	LD26T
Graham.....	LD26T	LD26T	LD26T	LD26T	Studebaker—Champion.....	LD26T	LD26T	LD26T	LD26T
Hudson.....	LD26T	LD26T	LD26T	LD26T	Studebaker—Com. & Pres....	LD28	LD28	LD28	LD28
Hupmobile.....	LD28	LD28	LD28	LD28	Terraplane.....	LD28	LD28	LD28	LD28
Lafayette.....	LD28	LD28	LD28	LD28	Willys.....	LD28	LD28	LD28	LD28
LaSalle.....	LD26T	10MM Plug	10MM Plug	10MM Plug					
Lincoln.....	LD28	LD26T	LD26T	LD26T					

### Sockets for 10MM Plugs

Make Plug	Socket No.	Make Plug	Socket No.
A C Autolite	LD20 LD22	Bowes Seal Fast Champion	LD22 LD22



## BONNEY ROLLER CABINETS

*The Finest that  
Money Can Buy*

**N**O more hunting for lost tools . . . no more lugging tool kits from one job to another . . . Bonney Roller Cabinets keep all your tools in one place all the time . . . and you roll them on the job and off when finished. Bonney Roller Cabinets are made of heavy gauge sheet metal attractively finished in "crackle" tan enamel. They have

rounded edges and are mounted on rubber-tired casters for noiseless, easy movement.

Two styles of Roller Cabinets are available to take your present tool kit or to take the Bonney Sets in metal cabinets mentioned below.

### No. C Roller Cabinet

The top of the No. C cabinet is the correct size to hold the No. BB1 Bonney Set shown on page 26, or the No. MC1 Bonney Set shown on page 27. The No. C Roller Cabinet is 24" long, 12" wide, 27" high. It is equipped with center shelf, single door, door lock with key and silent casters.

Net Weight 40 lbs.



### No. CC Roller Cabinet

The top of the No. CC Cabinet is the correct size to hold the No. AB Bonney Set shown on pages 28 and 29, or the No. AA2 Bonney Set shown on pages 30 and 31. It is 28" long, 13" wide and 27" high. Equipped with center shelf, double doors, door lock with key and silent casters.

Net Weight 50 lbs.

*The Finest that Money Can Buy*

NO. "C" ROLLER CABINET  
WITH BONNEY TOOL SETS



EQUIPPED with either No. BB1 or MC1 Bonney Set, the C Roller Cabinet makes a fine workshop on wheels. It's convenient to move about in the shop—take right to the job. It eliminates the necessity of running back and forth to the bench for needed tools.

The convenient center shelf makes it possible to store parts for the job and keep them safely under lock and key until needed. Illustrated is the No. C Cabinet with the No. BB1 Set shown on page 26. The No. C Cabinet can also be furnished with the No. MC1 Set shown on page 27.

*The Finest that Money Can Buy*



## NO. "CC" ROLLER CABINET WITH BONNEY TOOL SETS

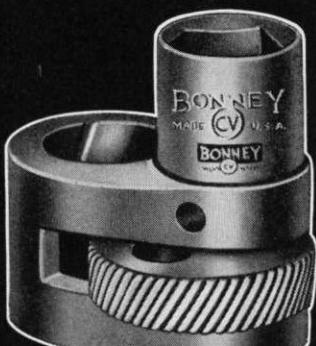


In short . . . one suggestion on  
the No. CC Set is to  
choose tool cabinet with  
the following combination:

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*The Finest that  
Money Can Buy*



Stud Wrench



Connecting Rod Socket for Ford V8



Drag Link Socket



No. 2866 to No. 2874

## 'CV' Chrome-Vanadium SPECIAL SOCKETS

1/2 inch Square Drive

Chromium Plated

### Stud Wrench

No. 2591—Made for use with 1/2" square drive handles and attachments, this stud wrench is found indispensable by mechanics for removing and setting studs. Designed to take studs from 5/16" to 3/4" in diameter, it has an eccentrically mounted roller with a deeply milled edge which provides a non-slipping, non-burring, gripping device.

Made entirely of Bonney 'CV' Chrome-Vanadium Steel, chrome plated and polished.

### Connecting Rod Socket For Ford V8

No. F18—A special socket for adjusting Ford V8 connecting rod bearing cap nuts. It has a 9/16" hexagon opening and is equipped for 1/2" square drive. The nose of the socket is very thin to make this adjustment easily. Made of Bonney 'CV' Chrome-Vanadium Steel, chrome plated and polished. Because of the thin wall construction of this socket, it cannot be guaranteed.

### Drag Link Sockets

No. 4001—A drag link socket suitable for adjustments on passenger cars. Made of Bonney 'CV' Chrome-Vanadium Steel, chrome plated. Blade is 15/16" wide and socket is for use with 1/2" square drive handles.

No. 4002—This drag link socket is designed for drag link adjustments on trucks. Width of blade 1 1/4". Made of Bonney 'CV' Chrome-Vanadium Steel, chrome plated and designed for use with 1/2" square drive handles.

### Crowfoot Attachments

Bonney 'CV' Chrome-Vanadium Crowfoot Attachments are useful in making adjustments in "hard-to-get-at" places. Equipped with standard 1/2" square drive.

No.	Openings		
2866	1/2"	Double Hexagon	
2868	9/16"	"	"
2870	5/8"	"	"
2872	11/16"	"	"
2874	3/4"	"	"

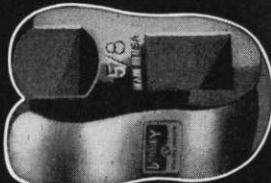
## Special Crowfoot Open-End Attachments

**BONNEY** Special Crowfoot Open-end Attachments are made of 'CV' Chrome-Vanadium Steel, chrome plated and buffed to a high, permanent lustre. Designed for use with handles having  $\frac{1}{2}$ " square drive.

No.	Openings	No.	Openings
6603C	$\frac{1}{2}$ " Open End	6603B	$1\frac{1}{16}$ " Open End
6603D	$\frac{7}{16}$ " Open End	6606	$\frac{3}{4}$ " Open End
6603A	$\frac{9}{16}$ " Open End	6606A	$1\frac{3}{16}$ " Open End
6603	$\frac{5}{8}$ " Open End	6606B	$\frac{7}{8}$ " Open End



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No. 6603 Series

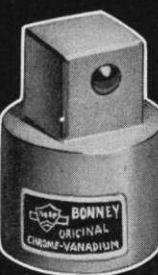
## Adaptors

This series of Bonney 'CV' Chrome-Vanadium Steel Adaptors is designed with square female openings. All have square male drive and are fully chrome plated.

Number	Openings	
	Handle End	Socket End
4296	$\frac{5}{8}$ " sq. female	$\frac{3}{4}$ " sq. male
4297	$\frac{3}{4}$ " sq. female	$\frac{5}{8}$ " sq. male
4298	$\frac{1}{2}$ " sq. female	$\frac{3}{4}$ " sq. male
4299	$\frac{3}{4}$ " sq. female	$\frac{1}{2}$ " sq. male
4204	$\frac{3}{4}$ " sq. female	$\frac{7}{8}$ " sq. male
4206	$\frac{1}{2}$ " sq. female	$\frac{3}{8}$ " sq. male
4208	$\frac{1}{2}$ " sq. female	$\frac{5}{8}$ " sq. male
4209	$\frac{5}{8}$ " sq. female	$\frac{1}{2}$ " sq. male
4210	$\frac{7}{8}$ " sq. female	$\frac{3}{4}$ " sq. male
4211	$\frac{3}{4}$ " sq. female	$\frac{1}{2}$ " sq. male
4213	$\frac{1}{2}$ " sq. female	$\frac{3}{4}$ " sq. male
4215	$\frac{3}{8}$ " sq. female	$\frac{1}{2}$ " sq. male

The No. 4201 series adaptors are designed for use with ratchet handles. Made of 'CV' Chrome-Vanadium Steel, chrome plated.

No.	Size Squares	No.	Size Squares
4201	$\frac{1}{2}$ " Square & $\frac{5}{8}$ " Square	4207	$\frac{3}{8}$ " Square & $\frac{1}{2}$ " Square
4202	$\frac{1}{2}$ " Square & $\frac{3}{4}$ " Square	4212	$\frac{3}{4}$ " Square & $\frac{1}{2}$ " Square
4203	$\frac{3}{4}$ " Square & $\frac{7}{8}$ " Square		



No. 4296 Series



No. 4201 Series



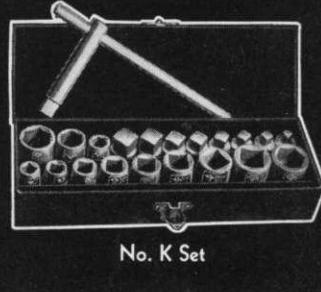
Drain Plug Squares

Bonney Drain Plug Squares range in size from  $\frac{5}{16}$ " square to  $\frac{3}{4}$ " square. They may be used with any handle or attachment having  $\frac{1}{2}$ " square drive. They are designed for use on drain plugs with square female opening.

Number	Size	Number	Size
P10	$\frac{5}{16}$ "	P18	$\frac{9}{16}$ "
P12	$\frac{3}{8}$ "	P20	$\frac{5}{8}$ "
P14	$\frac{7}{16}$ "	P22	$1\frac{1}{16}$ "
P16	$\frac{1}{2}$ "	P24	$\frac{3}{4}$ "

The No. K Drain Plug Set consists of 8 Drain Plug Squares, 12 sockets and a "T" Handle with  $\frac{1}{2}$ " square drive. The K Set will remove or replace drain plugs on the crank case, transmission and differential housing of most cars. Packed complete in strong metal box measuring  $10\frac{3}{4}$ " x  $3\frac{5}{8}$ " x  $1\frac{5}{8}$ ".

Net Weight 7 $\frac{1}{4}$  lbs.



No. K Set

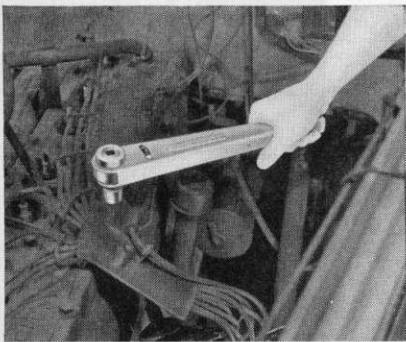
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NO. 66 BONNEY

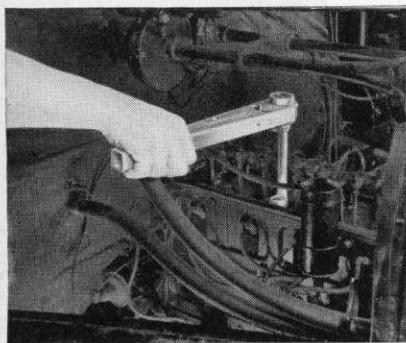
## TORQUE-INDICATING WRENCH



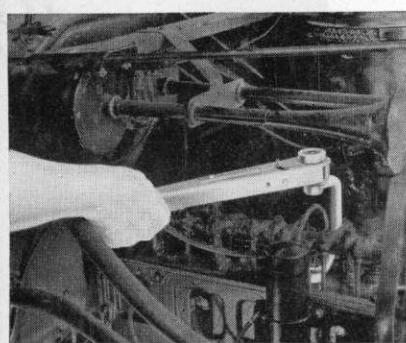
No other Torque Wrench like it!



Equipped with standard  $\frac{1}{2}$  inch square drive lug, the No. 66 Wrench can be used with any  $\frac{1}{2}$  inch square drive socket. The view above shows how easily cylinder head bolts may be tightened uniformly according to manufacturers specifications.



The above illustration shows the No. 66 Wrench being used with the No. 2613 close sweep Box Wrench Attachment in tightening all Chevrolet cylinder head bolts except the center one.



The center cylinder head bolt on Chevrolet engines is particularly difficult to reach because of rocker arm assembly and oil feed line. The No. 66 Wrench with the No. 2614 wide sweep Box Wrench Attachment makes it possible to tighten this bolt uniformly with all other cylinder head bolts.

ELEVEN outstanding features make this wrench the best buy in a torque-indicating wrench for any mechanic.

1. The No. 66 Bonney Torque Wrench has ratchet mechanism that is reversible.
2. It has no dials or gauges to get out of order or be damaged by careless handling.
3. Positive pre-setting of wrench eliminates all chances of error.
4. Three methods of telling when desired torque is reached—
  - (a) Red ratchet lever snaps to center.
  - (b) A sharp "click" is heard.
  - (c) Ratchet mechanism locks.
5. The No. 66 Bonney Torque Wrench is safe to use. The ratchet mechanism locks when the desired torque is reached—it does not allow the handle to swing free, thus preventing smashed fingers for the user.
6. Small head permits use in normally inaccessible places. Not necessary to watch a dial or gauge to tell when desired torque has been reached. No chance of error in reading dial or gauge.
7. Calibrated on a "dead weight" tester. Accuracy of the wrench is greater than consistent performance of bolts on which wrench is used.
8. All working parts carefully hardened, providing long life for wrench.
9. Fastest torque wrench on the market because of ratchet and absence of dials and gauges.  
(Wrench is set before starting job and work is done rapidly without slowing down to watch a dial.)
10. Wide range—25 to 125 foot pounds.
11. Has no coil springs.

### Pre-set for Accuracy . . . No Dials or Gauges Simple to Operate . . . Positive in Results

The No. 66 Bonney Torque Wrench is extremely simple to operate. All that is necessary is—

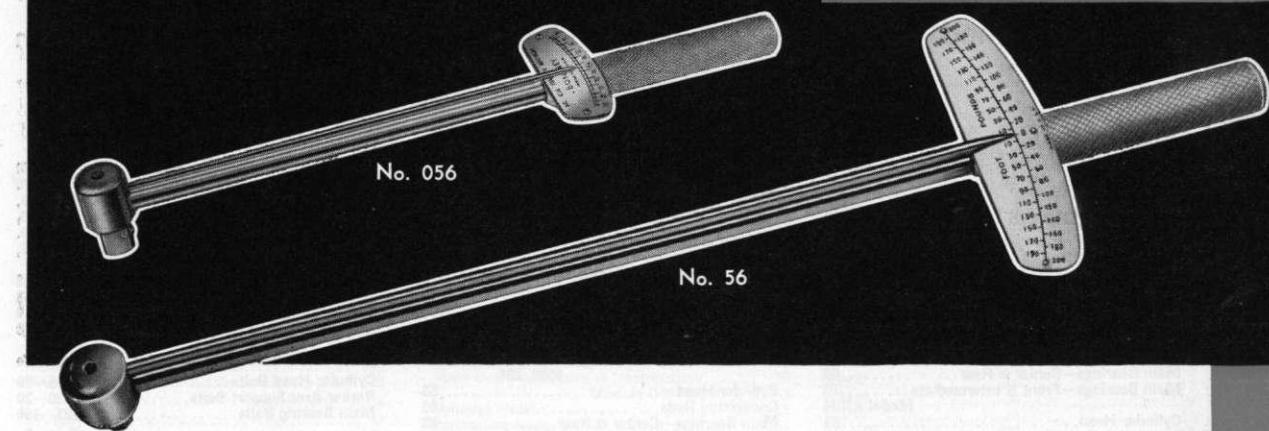
1. Set indicator at desired torque (foot pounds). To do this loosen indicator clamping screw slightly, move the indicator to desired position on scale and then tighten screw firmly.
2. Move ratchet lever (red reversing lever) to position at extreme left of wrench.
3. Operate wrench just as any ratchet wrench until the ratchet lever snaps over to the neutral position in center—then stop wrenching. There is a sharp "click" and the ratchet locks as a further signal that this point has been reached.
4. To tighten the next bolt or nut, simply move the ratchet lever back to position at the left of the wrench and repeat. The indicator is not moved except when a change of torque is desired.

You'll like the No. 66 Bonney Torque-Indicating Wrench. It's the simplest, strongest, sturdiest torque wrench on the market. Suitable for use with all  $\frac{1}{2}$  inch square drive sockets and attachments. The No. 66 Bonney Torque-Indicating Wrench has the factory approval of Chevrolet, Buick, Oldsmobile, Pontiac, Cadillac, Hudson, Packard, Graham-Paige and G. M. C. Trucks. Length 17 inches overall. Net Weight  $4\frac{1}{4}$  lbs.



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## BONNEY TORQUE INDICATING WRENCHES



THE No. 056 and No. 56 Bonney Torque-Indicating Wrenches are sturdily constructed with a heavy, ground, spring-steel shaft with pointer which remains rigid. The scale is conveniently placed near the handle grip and is accurately calibrated in foot pounds of tension. These wrenches are permanently adjusted, light in weight and of rugged construction, with no moving parts to get out of order. The extremely small head with which they are equipped permits their use in places normally inaccessible with other types of torque wrenches. Both the No. 056 and the No. 56 Wrenches are permanently equipped with  $\frac{1}{2}$ " square adaptor and can be used

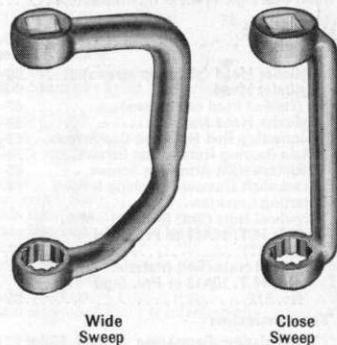
with all  $\frac{1}{2}$ " square drive sockets and attachments. While the No. 056 Wrench is especially designed for spark plug adjustments, because of the extremely small head and short handle, it can be used in places, within its capacity, normally inaccessible to other torque wrenches. Both wrenches are fully chrome plated and highly polished and have knurled handle grip.

No.	Capacity	Length	Weight
056	0 to 50 ft. lbs.	$12\frac{5}{8}$ "	1 lb.
56	0 to 200 ft. lbs.	23"	3 lbs.

### Bonney Box Wrench Attachments for use with No. 56 and No. 66 Torque-Indicating Wrenches

Designed especially for drawing up cylinder head stud nuts on overhead valve motors with torque-indicating wrenches. These box wrench attachments are drop forged of Bonaloy Steel with plated finish. They have double hexagon box wrench openings and  $\frac{1}{2}$ " square drive for use with Nos. 56 and 66 Bonney Torque-Indicating Wrenches and all other torque-indicating wrenches having  $\frac{1}{2}$ " square drive.

No.	Double Hexagon Opening and Sweep
2613	$\frac{3}{4}$ " close sweep
2614	$\frac{3}{4}$ " wide sweep
2615A	$1\frac{1}{16}$ " close sweep
2615	$\frac{5}{8}$ " close sweep
2616	$\frac{5}{8}$ " wide sweep



### Tensions in Foot Pounds Recommended for Spark Plugs

Plug Thread	Cast Iron Head	Aluminum Head
10MM	14	12
14MM	30	28
18MM	34	32
$\frac{7}{8}$ "-18	37	35



*The Finest that  
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Car, Truck, Bus and Engine Manufacturers'  
Recommendations for Tensions on Cylinder Heads,  
Connecting Rods, Main Bearings, Spark Plugs, Etc.

When Tightened with Bonney Torque-Indicating Wrenches . . . All Tension  
Specifications are in Foot Pounds

<b>AUBURN</b>	All Models	<b>CORBITT TRUCKS</b>	Models 50SD6, 54SD6	Main Bearings—Center & Rear.....	60
Cylinder Head.....	.49-.53	Cylinder Head.....	.105	Main Bearings—Front & Intermediate.....	70
<b>AUTOCAR TRUCKS</b>	Models A, UA, UB, UB	Cylinder Head (aluminum and cast iron).....	.49-.53	Models 15, 15H, 75, 75H, 18,	
Cylinder Head.....	.53	Connecting Rods.....	.53	18H, 20, 20H, 80, 80H, 25,	
Connecting Rods.....	.53	Main Bearings—Center & Rear.....	.60	25H, 85, 85H, 29, 29H, 89,	
Main Bearings—Center & Rear.....	.60	Main Bearings, Center & Rear.....	.60	89H, 202, 204, 252, 254, 292,	
Main Bearings—Front & Intermediate.....	.70	Main Bearings, Front & Intermediate.....	.70	294, 802, 852, 892	
<b>BROWN COACH BUSES</b>	Model A24H	Cylinder Head.....	.53	Cylinder Head.....	.53
Cylinder Head.....	.53	Connecting Rods.....	.53	Connecting Rods.....	.53
Connecting Rods.....	.53	Main Bearings—Center & Rear.....	.60	Main Bearings—Center & Rear.....	.60
Main Bearings—Center & Rear.....	.60	Main Bearings, Center & Rear.....	.60	Main Bearings—Front & Intermediate.....	.70
Main Bearings—Front & Intermediate.....	.70	Models 50G Spec., 60G, 70DR,			
	Model A28H	1500, 251			
Cylinder Head.....	.53	Cylinder Head.....	.53		
Connecting Rods.....	.53	Connecting Rods.....	.53		
Main Bearings—Center & Rear.....	.60	Main Bearings—Center & Rear.....	.60		
Main Bearings—Front & Intermediate.....	.70	Main Bearings—Front & Intermediate.....	.70		
	Model A28H	Models 80W, 100W, 352			
Cylinder Head.....	.53	Cylinder Head.....	.53		
Connecting Rods.....	.53	Connecting Rods.....	.53		
Main Bearings—Center & Rear.....	.60	Main Bearings—Center & Rear.....	.60		
Main Bearings—Front & Intermediate.....	.70	Main Bearings—Front & Intermediate.....	.70		
		Models 80W, 100W, 352			
<b>BUICK</b>		Cylinder Head.....	.53		
Cylinder Head Bolts & Studs (all series).....	.85-.70	Connecting Rods.....	.53		
Connecting Rod Bolts (series 40, 50).....	.45-.50	Main Bearings—Center & Rear.....	.60		
Connecting Rod Bolts (series 60, 70, 80, 90).....	.115-.120	Main Bearings—Front & Intermediate.....	.70		
Rocker Arm Cap Screws (all series).....	.30-.35	Models 221S, 212AS, 212BS,			
		401, 402, 404, 405, 507, 509,			
		244S, 313, 611, 320, 353, 607,			
		613, 360, 609, 612, 614			
<b>CADILLAC</b>	V8 and V16	Cylinder Head.....	.53		
Cylinder Head Bolts.....	.70-.75	Connecting Rods.....	.53		
Connecting Rod Bolts.....	.55-.60	Main Bearings—Center & Rear.....	.60		
Spark Plugs.....	.7-.10	Main Bearings—Front & Intermediate.....	.70		
Manifold Bolts.....	.25-.30	Models 412DR, 512B, 512DR			
		Cylinder Head.....	.53		
		Connecting Rods.....	.53		
		Main Bearings—Center & Rear.....	.60		
		Main Bearings—Front & Intermediate.....	.70		
		Diesel Models D20, D30			
		Cylinder Head.....	.158		
		Connecting Rods.....	.140		
		Main Bearings—Center & Rear.....	.77		
		Main Bearings—Front & Intermediate.....	.95		
<b>CHEVROLET CARS AND TRUCKS</b>	All Models except Diesel	Cylinder Head.....	.158		
Cylinder Head Bolts.....	.75-.80	Connecting Rods.....	.140		
Rocker Arm Support Bolts.....	.25-.30	Main Bearings—Center & Rear.....	.77		
Main Bearing Bolts.....	.103-.109	Main Bearings—Front & Intermediate.....	.95		
Front Wheel Bearings.....	Pull up to 33 ft. lbs. and then back off to first cotter pin hole.	Models 221S, 212AS, 212BS,			
		401, 402, 404, 405, 507, 509,			
		244S, 313, 611, 320, 353, 607,			
		613, 360, 609, 612, 614			
<b>CHEVROLET TRUCKS</b>	Diesel Models TD155L, TD155H, BD183	Cylinder Head.....	.53		
Cylinder Head.....	.53	Connecting Rods.....	.53		
Connecting Rods.....	.53	Main Bearings—Center & Rear.....	.60		
Main Bearings, Center & Rear.....	.60	Main Bearings—Front & Intermediate.....	.70		
Main Bearings, Front & Intermediate.....	.70	Models 412DR, 512B, 512DR			
<b>CHRYSLER</b>	All Models	Cylinder Head.....	.53		
<b>Engine</b>		Connecting Rods.....	.53		
Cylinder Head (plain cap screws).....	.65-.70	Main Bearings—Center & Rear.....	.60		
Cylinder Head (cupped head cap screws).....	.67-.72	Main Bearings—Front & Intermediate.....	.70		
Cylinder Head Nuts.....	.52-.57	Model C—25P			
Connecting Rod Nuts and Cap Screws.....	.53-.58	Cylinder Head.....	.53		
Main Bearing Nuts & Cap Screws.....	.74-.80	Connecting Rods.....	.105		
Counterweight Attaching Screws.....	.65-.70	Main Bearings—Center & Rear.....	.60		
Crankshaft Damper Attaching Screws.....	.14-.18	Main Bearings—Front & Intermediate.....	.105		
Starting Crankjaw.....	.109	Diesel Models DJX40A, DJX55A, DJX70A, DJX75A, DJX85A			
Flywheel Nuts (Bolt Material—M.S. 387; H.T. 10A11 or Pro. Stud No. 517).....	.47-.58	Cylinder Head.....	.158		
Flywheel Nuts (Bolt Material—M.S. 410; H.T. 10A13 or Pro. Stud No. 512).....	.54-.60	Connecting Rods.....	.140		
<b>Transmission</b>		Main Bearings—Center & Rear.....	.77		
Transmission Companion Flange Nuts (with flange washers with protruding sections to fit in clearance space be- tween main shaft and flange).....	.96-.105	Main Bearings—Front & Intermediate.....	.95		
<b>Chassis</b>		Model BC—25P			
Wheel Hub Nuts.....	.58-.67	Cylinder Head.....	.53		
Wheel Driving Stud Nuts.....	.58-.67	Connecting Rods.....	.53		
Propeller Shaft Flange Nuts.....	.33-.39	Main Bearings—Center & Rear.....	.60		
<b>CLYDESDALE TRUCKS</b>	Model 300	Main Bearings—Front & Intermediate.....	.70		
Cylinder Head.....	.105	Model FGZ6			
Diesel Models 40-D, 70-D		Cylinder Head.....	.158		
Cylinder Head.....	.158	Connecting Rods.....	.140		
Connecting Rods.....	.140	Main Bearings—Center & Rear.....	.77		
Main Bearings, Center & Rear.....	.77	Main Bearings—Front & Intermediate.....	.95		
Main Bearings, Front & Intermediate.....	.95	Dodge Cars			
Model 125D		(see Chrysler)			
Cylinder Head 5/8".....	.175	Model RZ—65			
<b>FEDERAL TRUCKS</b>		Cylinder Head.....	.158		
		Connecting Rods.....	.140		
		Main Bearings—Center & Rear.....	.77		
		Main Bearings—Front & Intermediate.....	.95		
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rod.....	.53		
		Main Bearings.....	.105		
		Models 11, 11H			
		Cylinder Head.....	.53		
		Connecting Rod.....	.39		
		Fargo			
		All Models except Diesel			
		(see Dodge)			
		Model FGZ6			
		Cylinder Head.....	.158		
		Connecting Rods.....	.140		
		Main Bearings—Center & Rear.....	.77		
		Main Bearings—Front & Intermediate.....	.95		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rod.....	.53		
		Main Bearings.....	.105		
		Models 11, 11H			
		Cylinder Head.....	.53		
		Connecting Rod.....	.39		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
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		Federal Trucks			
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		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.70		
		Main Bearings—Front & Intermediate.....	.105		
		Federal Trucks			
		Model 10			
		Cylinder Head.....	.53		
		Connecting Rods.....	.105		
		Main Bearings—Center & Rear.....	.		



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<b>MACK TRUCKS and BUSES</b>	Model BG
Cylinder Head Studs.....	96-102
Connecting Rods.....	57-63
Main Bearings.....	94-100
Series RX	Model CF
Cylinder Head Studs.....	99-105
Connecting Rods.....	63-68
Main Bearings.....	94-100
Series DDX, DJX	Model EO
Cylinder Head Studs.....	99-105
Connecting Rods.....	94-100
Main Bearings.....	94-100
Main Bearings—Center & Rear.....	77
Main Bearings—Front & Intermediate.....	95
Series DRX	Model ED
Cylinder Head 5/8".....	175
Connecting Rods.....	158
Main Bearings (all).....	175
Series DHX	Model ED
Cylinder Head 11/16".....	175
Series DHX	113-119
Cylinder Head Studs.....	Models EP, EY
Cylinder Head Studs.....	99-105
Cylinder Head.....	Model 209
Cylinder Head.....	170-175
Cylinder Head.....	Models 228, 268, 309, EJ
Cylinder Head.....	180-185
Connecting Rods.....	190-200
Main Bearings.....	180-200
<b>LINCOLN ZEPHYR</b>	40
Cylinder Head.....	
<b>MARMON-HERRINGTON</b>	
Models C10-4, C20-4, C30-4, C20-6, C30-6	
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Models 16X6, 18X6	Models C40-4, C50-4, C30-3
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings, Center & Rear.....	105
Main Bearings, Front & Intermediate.....	123
Models 20X6, 22X6	Models C55-4, 55DR4, C60-4, C70-4, C80-4, C60-6, C80-6
Cylinder Head.....	105
Model 16	Cylinder Head.....
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	105
<b>INTERNATIONAL TRUCKS (IHC)</b>	
Connecting Rod Bolts 7/16".....	56
Cylinder Head Studs 1/2".....	67
Cylinder Head Studs 5/8".....	93
Main Bearing Studs 1/2".....	75
Main Bearing Studs 9/16".....	75
Main Bearing Studs 5/8".....	93
<b>KENWORTH TRUCKS &amp; BUSES</b>	
Models 536, 537, RE 1	
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Model C—24	
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	105
Model V8-H	
Cylinder Head.....	39
Models OCB, OOC, JXC, JXD, QXB, QXC, WXC	
Cylinder Head.....	60
Model V8-L	
Cylinder Head.....	46
Models D, G, L, R, V	
Cylinder Head.....	91
Model F	
Cylinder Head.....	67
<b>LA SALLE</b>	
Cylinder Head (1940 models).....	70-75
Cylinder Head (previous models).....	55-60
Connecting Rods (all models).....	55-60
Spark Plugs.....	7-10
Manifold Bolts.....	25-30
<b>LYCOMING ENGINES</b>	
Models BB, FB, FC, GG, GH, WF, GFD, BF, UH, UHB, UHBD, UHD, UJ and UJD	
Cylinder Head.....	49-53
Models AFE, AEF, ASE, UEB, UEBD	
Cylinder Head.....	53-56
Models UEE, UAED, D, UHET	
Cylinder Head.....	63-70
Models UF, UFD and EUF	
Cylinder Head.....	102-109
<b>MACK TRUCKS and BUSES</b>	Model BG
Cylinder Head Studs.....	96-102
Connecting Rods.....	57-63
Main Bearings.....	94-100
Series RX	Model CF
Cylinder Head Studs.....	99-105
Connecting Rods.....	63-68
Main Bearings.....	94-100
Series DDX, DJX	Model EO
Cylinder Head Studs.....	99-105
Connecting Rods.....	94-100
Main Bearings.....	94-100
Main Bearings—Center & Rear.....	77
Main Bearings—Front & Intermediate.....	95
Series DRX	Model ED
Cylinder Head 5/8".....	175
Connecting Rods.....	158
Main Bearings (all).....	175
Series DHX	Model ED
Cylinder Head 11/16".....	175
Series DHX	113-119
Cylinder Head Studs.....	Models EP, EY
Cylinder Head Studs.....	99-105
Cylinder Head.....	Model 209
Cylinder Head.....	170-175
Cylinder Head.....	Models 228, 268, 309, EJ
Cylinder Head.....	180-185
Connecting Rods.....	190-200
Main Bearings.....	180-200
<b>LINCOLN ZEPHYR</b>	40
Cylinder Head.....	
<b>MARMON-HERRINGTON</b>	
Models C10-4, C20-4, C30-4, C20-6, C30-6	
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Models 16X6, 18X6	Models C40-4, C50-4, C30-3
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings, Center & Rear.....	105
Main Bearings, Front & Intermediate.....	123
Models 20X6, 22X6	Models C55-4, 55DR4, C60-4, C70-4, C80-4, C60-6, C80-6
Cylinder Head.....	105
Model 16	Cylinder Head.....
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	105
<b>INTERNATIONAL TRUCKS (IHC)</b>	
Connecting Rod Bolts 7/16".....	56
Cylinder Head Studs 1/2".....	67
Cylinder Head Studs 5/8".....	93
Main Bearing Studs 1/2".....	75
Main Bearing Studs 9/16".....	75
Main Bearing Studs 5/8".....	93
<b>KENWORTH TRUCKS &amp; BUSES</b>	
Models 536, 537, RE 1	
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Model C—24	
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	105
Model V8-H	
Cylinder Head.....	39
Models OCB, OOC, JXC, JXD, QXB, QXC, WXC	
Cylinder Head.....	60
Model V8-L	
Cylinder Head.....	46
Models D, G, L, R, V	
Cylinder Head.....	91
Model F	
Cylinder Head.....	67
<b>LA SALLE</b>	
Cylinder Head (1940 models).....	70-75
Cylinder Head (previous models).....	55-60
Connecting Rods (all models).....	55-60
Spark Plugs.....	7-10
Manifold Bolts.....	25-30
<b>LYCOMING ENGINES</b>	
Models BB, FB, FC, GG, GH, WF, GFD, BF, UH, UHB, UHBD, UHD, UJ and UJD	
Cylinder Head.....	49-53
Models AFE, AEF, ASE, UEB, UEBD	
Cylinder Head.....	53-56
Models UEE, UAED, D, UHET	
Cylinder Head.....	63-70
Models UF, UFD and EUF	
Cylinder Head.....	102-109
<b>MACK TRUCKS and BUSES</b>	Model BG
Cylinder Head Studs.....	96-102
Connecting Rods.....	57-63
Main Bearings.....	94-100
Series RX	Model CF
Cylinder Head Studs.....	99-105
Connecting Rods.....	63-68
Main Bearings.....	94-100
Series DDX, DJX	Model EO
Cylinder Head Studs.....	99-105
Connecting Rods.....	94-100
Main Bearings.....	94-100
Main Bearings—Center & Rear.....	77
Main Bearings—Front & Intermediate.....	95
Series DRX	Model ED
Cylinder Head 5/8".....	175
Connecting Rods.....	158
Main Bearings (all).....	175
Series DHX	Model ED
Cylinder Head Studs.....	Models EP, EY
Cylinder Head Studs.....	99-105
Cylinder Head.....	Model 209
Cylinder Head.....	170-175
Cylinder Head.....	Models 228, 268, 309, EJ
Cylinder Head.....	180-185
Connecting Rods.....	190-200
Main Bearings.....	180-200
<b>LINCOLN ZEPHYR</b>	40
Cylinder Head.....	
<b>MARMON-HERRINGTON</b>	
Models C10-4, C20-4, C30-4, C20-6, C30-6	
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Models 16X6, 18X6	Models 25A, 28A, 35A, 125CU, 128CU
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Models 25A, 28A, 35A, 125CU, 128CU	Models 40A, 66A, TRA, TRCU
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	105
Main Bearings—Front & Intermediate.....	123
<b>SPARK PLUGS</b>	
Cast Iron Head	Aluminum Head
10MM.....	14.....
14MM.....	30.....
18MM.....	34.....
7/8"-18.....	37.....
<b>STUDEBAKER CARS</b>	
Cylinder Head.....	Champion
Cylinder Head.....	50-54
Connecting Rods.....	Dictator & President
Cylinder Head.....	84
Connecting Rods.....	50
Main Bearings.....	90
Crankshaft Counterweight Screw.....	50
<b>STUDEBAKER TRUCKS &amp; BUSES</b>	
Models K20, K20H, K20MB, K25, K25M, K25MB, J20MB-87, J25MB-87	
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
Models K30, K30M	Models K5, K10, K15, K15M
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	70
Main Bearings—Front & Intermediate.....	105
Models K5, K10, K15, K15M	Cylinder Head Studs.....
Cylinder Head Nuts.....	88
Connecting Rod Bolts.....	67
Main Bearing Cap Screws.....	53
Crankshaft Counterweight Screw.....	53
Diesel Model K20D	
Cylinder Head.....	158
Connecting Rods.....	140
Main Bearings—Center & Rear.....	77
Main Bearings—Front & Intermediate.....	95
<b>TWIN COACH BUSES</b>	Models 40R, 37R
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	105
Main Bearings—Front & Intermediate.....	123
Model 35R	Cylinder Head.....
Cylinder Head.....	74
Connecting Rods.....	158
Main Bearings (all).....	175
Models 30R, 31R	Cylinder Head.....
Cylinder Head.....	53
Connecting Rods.....	105
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	105
Model 23R	Cylinder Head.....
Cylinder Head.....	53
Connecting Rods.....	53
Main Bearings—Center & Rear.....	60
Main Bearings—Front & Intermediate.....	70
<b>WHITE TRUCKS and BUSES</b>	
Cylinder Head.....	61-65
Connecting Rod Bolts 3/4".....	23-26
Connecting Rod Bolts 7/16".....	44-47
Main Bearing Nuts & Cap Screws 9/16".....	88-96
<b>WILLYS</b>	
Cylinder Head.....	60-65
Connecting Rod Bolts.....	55
Main Bearing Bolts.....	60-65
<b>YELLOW COACH</b>	
Models 479, 529, 707	
Cylinder Head.....	88-95
Model 400	Model 400
Cylinder Head.....	60-67

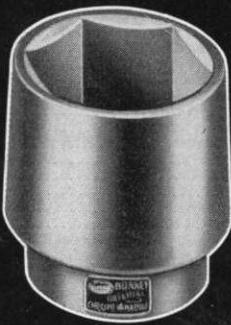
The information on pages 40 and 41 has been obtained from what we consider to be reliable sources, but we cannot guarantee its accuracy.



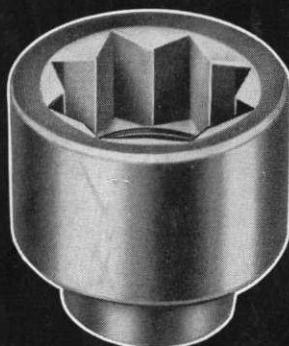
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Double Hexagon Sockets



Hexagon Sockets



Double Square Sockets

## 'CV' Chrome-Vanadium HEAVY DUTY SOCKETS

3/4" Square Drive

Chromium Plated

### Double Hexagon Sockets

No.	Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut
HD28	7/8"	1/2	5/8	9/16
HD30	15/16"	.....	.....	5/8
HD31	31/32"	9/16	.....	.....
HD32	1"	.....	3/4	11/16
HD34	11/16"	5/8	.....	3/4
HD36	11/8"	.....	7/8	.....
HD38	13/16"	.....	.....	.....
HD40	11/4"	3/4	1	7/8
HD42	15/16"	.....	.....	.....
HD44	13/8"	.....	1 1/8	.....
HD46	17/16"	7/8	.....	1
HD48	11/2"	.....	1 1/4	.....
HD50	19/16"	.....	.....	.....
HD52	15/8"	1	1 3/8	1 1/8
HD54	111/16"	.....	.....	.....
HD56	13/4"	.....	.....	.....
HD60	17/8"	.....	.....	.....
HD64	2"	1 1/4	.....	1 3/8

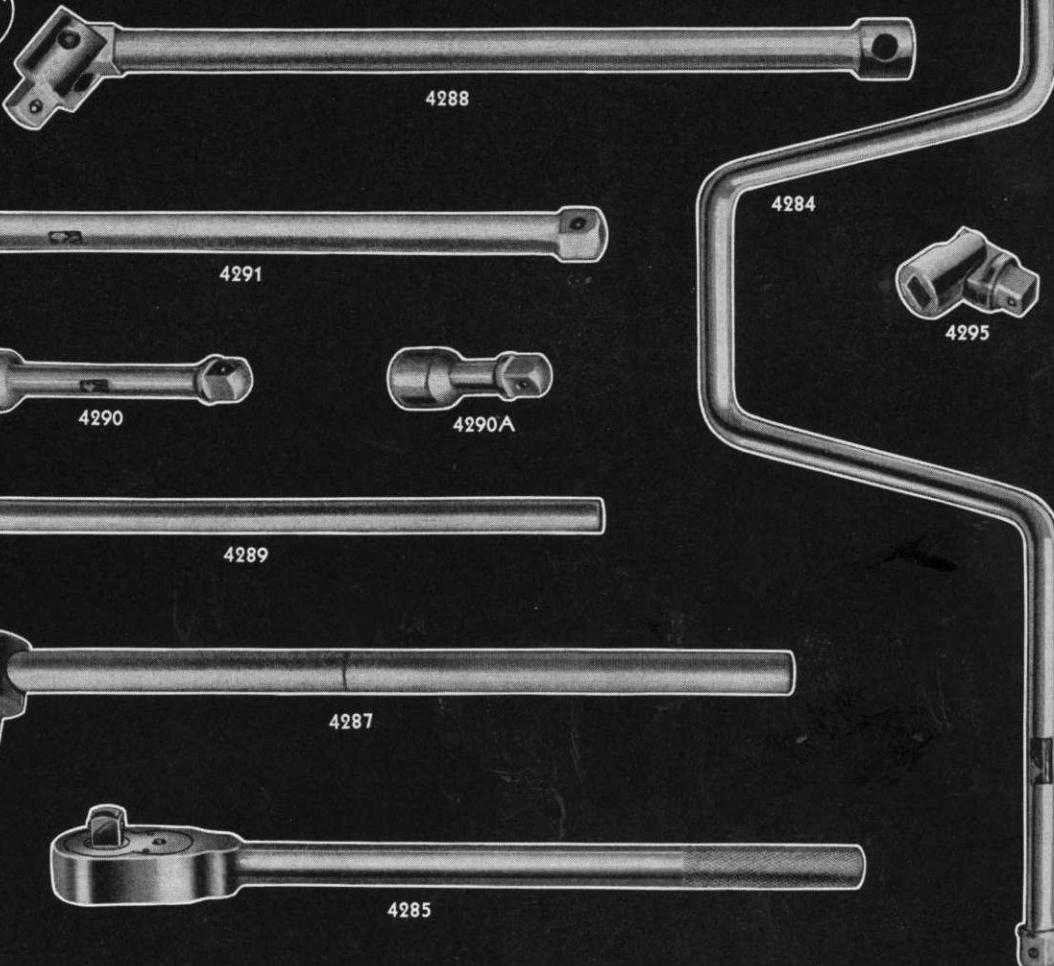
### Hexagon Sockets

No.	Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut
4228	7/8"	1/2	5/8	9/16
4230	15/16"	.....	.....	5/8
4231	31/32"	9/16	.....	.....
4232	1"	.....	3/4	11/16
4234	11/16"	5/8	.....	3/4
4236	11/8"	.....	7/8	.....
4238	13/16"	.....	.....	.....
4240	11/4"	3/4	1	7/8
4242	15/16"	.....	.....	.....
4244	13/8"	.....	1 1/8	.....
4246	17/16"	7/8	.....	1
4248	11/2"	.....	1 1/4	.....
4252	15/8"	1	1 3/8	1 1/8
4254	111/16"	.....	.....	.....
4256	13/4"	.....	.....	.....
4258	113/16"	1 1/8	.....	1 1/4
4260	17/8"	.....	.....	.....
4264	2"	1 1/4	.....	1 3/8
4266	21/16"	.....	.....	.....
4268	21/8"	.....	.....	.....
4270	23/16"	1 3/8	.....	1 1/2
4272	21/4"	.....	.....	.....

### Double Square Sockets

No.	Opening	U. S. S. Bolt Size	U. S. S. Cap Screw	U. S. S. or Amer. Std. Set Screw
S4228	7/8"	1/2	3/4	7/8
S4232	1"	.....	.....	1
S4234	11/16"	5/8	.....	.....
S4240	11/4"	3/4	1	1 1/4
S4246	17/16"	7/8	.....	.....

# *The Finest that Money Can Buy*



## 'CV' Chrome-Vanadium HEAVY DUTY HANDLES AND ATTACHMENTS

**¾ inch Square Drive**

### **Chromium Plated**

No.	Description	No.	Description
4284	Brace, 28" long	4290	Extension, 8½" long
4285	Reversible Ratchet Handle, 20" long	4290A	Extension, 4" long
4287	Sliding "T" Handle, 20" long	4291	Extension, 17" long
4288	Hinge Handle, 22" long	4295	Universal Joint
4289	Cross Handle, 16⅓" long, for No. 4288		



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## HEAVY DUTY SOCKET SETS

3/4 inch Square Drive

Nos. H and HD Sets



### No. H and HD Sets - 14 Pieces

EITHER the No. H or the No. HD Set will be found especially adapted to heavy duty work on buses, trucks, tractors and industrial machinery.

The sockets and attachments in each set are identical except that the No. H Set has hexagon sockets, while the No. HD Set has double hexagon sockets.

All pieces are made of Bonney 'CV' Chrome-Vanadium Steel, heavily chrome plated and fully guaranteed. They are packed in an attractively finished metal box measuring 20 $\frac{1}{2}$ " x 5 $\frac{3}{4}$ " x 3", with strong carrying handle and padlock hasp. Contents are as follows:

No. H Set Hexagon Sockets	No. HD Set Dble. Hex. Sockets	Opening	No. H Set Hexagon Sockets	No. HD Set Dble. Hex. Sockets	Opening
4230	HD30	15/16"	4240	HD40	1 1/4"
4231	HD31	31/32"	4244	HD44	13/8"
4232	HD32	7/8"	4246	HD46	17/16"
4234	HD34	11/16"	4248	HD48	11/2"
4236	HD36	1 1/8"	4252	HD52	1 5/8"

In addition, each set includes the following handles and attachments:

No.	Description
4285	Reversible Ratchet Handle, 20" long
4287	Sliding "T" Handle, 20" long
4290	Hinge Handle, 22" long
4291	Cross Handle, 16 $\frac{3}{8}$ " long, for No. 4288
	Extension, 8 $\frac{1}{2}$ " long
	Extension, 4" long
	Extension, 17" long

Net Weight, either set—27 lbs.

### No. HD1 Set - 25 Pieces

A exceptionally complete set of sockets and attachments that will take care of practically any job encountered where 3/4" square drive is necessary.

Sockets and handles are made of Bonney 'CV' Chrome-Vanadium Steel, fully chrome plated. Each piece carries the Bonney Guarantee of quality and satisfaction.

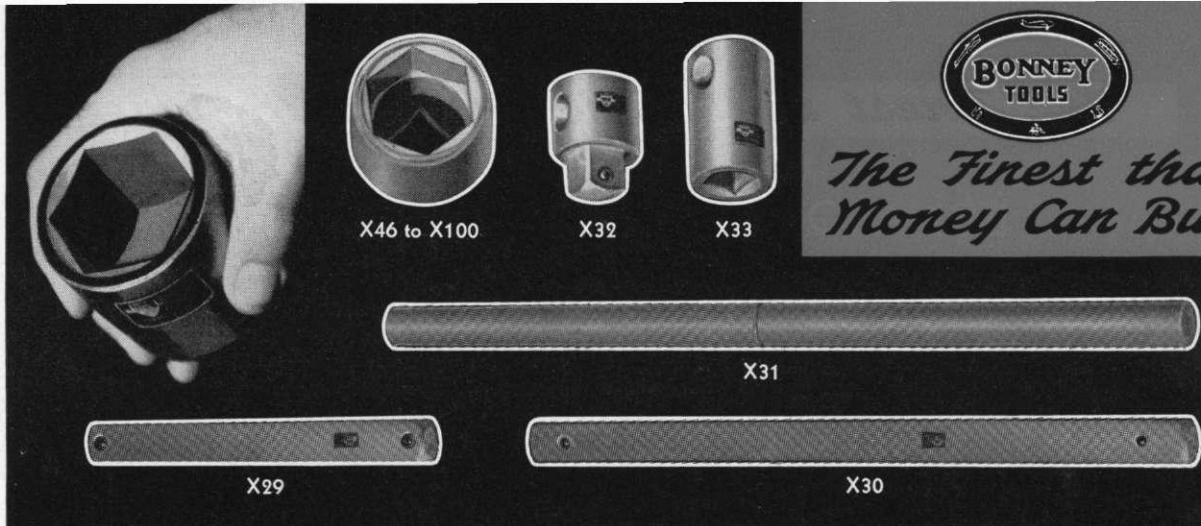
All pieces are packed in a strong, attractively finished metal box measuring 22 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ ". Contents are as follows:

No.	Description
HD30	15/16" Double Hexagon Socket
HD31	31/32" "
HD32	1"
HD34	1 1/16"
HD36	1 1/8"
HD38	1 3/16"
HD40	1 1/4"
HD42	1 5/16"
HD44	1 3/8"
HD46	1 7/16"
HD48	1 1/2"
HD50	1 9/16"
HD52	1 5/8"
4254	11 1/16" Hexagon Socket
4256	1 3/4" "
4258	1 13/16" "
4260	1 7/8" "
4264	2" "
4285	Reversible Ratchet Handle, 20" long
4287	Sliding "T" Handle, 20" long
4288	Hinge Handle, 22" long
4289	Cross Handle, 16 $\frac{3}{8}$ " long, for No. 4288
4290	Extension, 8 $\frac{1}{2}$ " long
4290A	Extension, 4" long
4291	Extension, 17" long

Net Weight 55 lbs.



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## 'CV' Chrome-Vanadium EXTRA HEAVY-DUTY SOCKET SERIES

1 inch Square Drive

Chromium Plated

### Extra Heavy-Duty Hexagon Sockets

No.	Size Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Nut Cap & Screw	Amer. Std. Bolt & Nut
X46	17/16	7/8		1	
X48	1 1/2		1 1/4		1
X52	1 5/8	1	1 3/8		
X58	1 3/16	1 1/8		1 1/4	
X60	1 7/8				1 1/4
X64	2	1 1/4			
X70	2 3/16	1 3/8		1 3/8	
X72	2 1/4			1 1/2	
X74	2 5/16				1 1/2
X76	2 3/8	1 1/2			
X78	2 7/16				
X80	2 1/2				
X82	2 9/16	1 5/8			
X84	2 5/8				1 3/4
X86	2 11/16				
X88	2 3/4	1 3/4			
X94	2 15/16	1 7/8			
X100	3 1/8	2			

### Extra Heavy-Duty Handles and Attachments

No.	Description	No.	Description
X29	Extension, 9" long	X32	Drive Head, Male
X30	Extension, 18" long	X33	Drive Head, Female
X31	Sliding Bar, 22" long		



### No. XH Extra Heavy-Duty Socket Set 12 Pieces

This set has been assembled especially for the mechanic who has use for sockets and attachments with 1" square drive in working on the largest buses, trucks, tractors and industrial machinery. Packed in an attractively finished metal box measuring 22 1/2" x 5 1/2" x 4 1/2". One each of the following pieces are included:

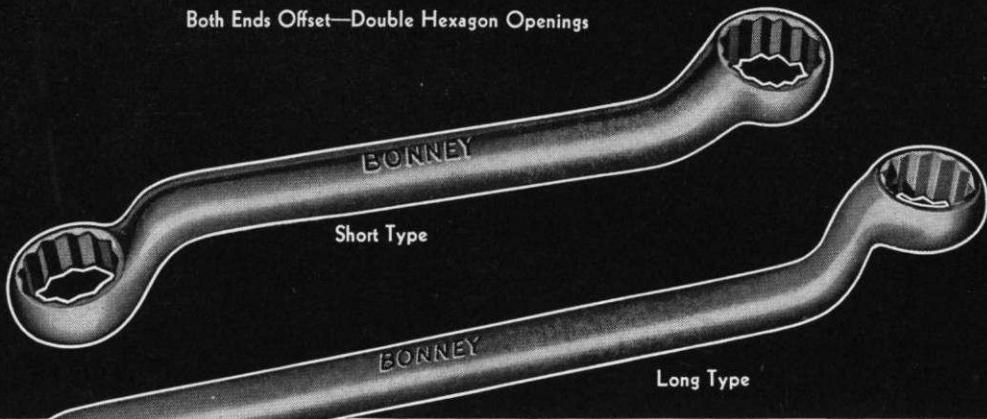
No.	Description	No.	Description
X46	17/16" Hexagon Socket	X76	2 3/8" Hexagon Socket
X48	" " "	X29	Extension, 9" long
X52	1 5/8"	X30	Extension, 18" long
X58	1 3/16"	X31	Sliding Bar, 22" long
X60	2"	X32	Drive Head, Male
X64	2 3/16"	X33	Drive Head, Female

Net Weight 42 lbs.

*The Finest that Money Can Buy*

## BONALOY BOX WRENCHES

Both Ends Offset—Double Hexagon Openings



**BONNEY** Box Wrenches, drop-forged of Bonaloy Steel, are thin, long and light in weight. Different size double hexagon openings are broached in each end of the wrench. Box walls are thin but still have

the exceptional strength of all Bonney Wrenches. Handles are oval, permitting a firm, comfortable grip. All wrenches are chrome plated, with heads buffed to a high, permanent lustre.

### BONALOY Short Type

Both Ends Offset—Different Openings Each End

Wrench No.	Openings	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Length
2804	3/8 & 7/16	.....	3/16 & 1/4	& 1/4	5 1/8
2805A	7/16 & 1/2	.....	1/4 & 5/16	1/4 & 5/16	5 1/2
2805	1/2 & 9/16	1/4 &	5/16 & 3/8	5/16 & 3/8	5 1/2
2806A	1/2 & 5/8	1/4 &	5/16 & 7/16	5/16 & 7/16	6
2806	9/16 & 5/8	.....	3/8 & 1/16	3/8 & 1/16	6

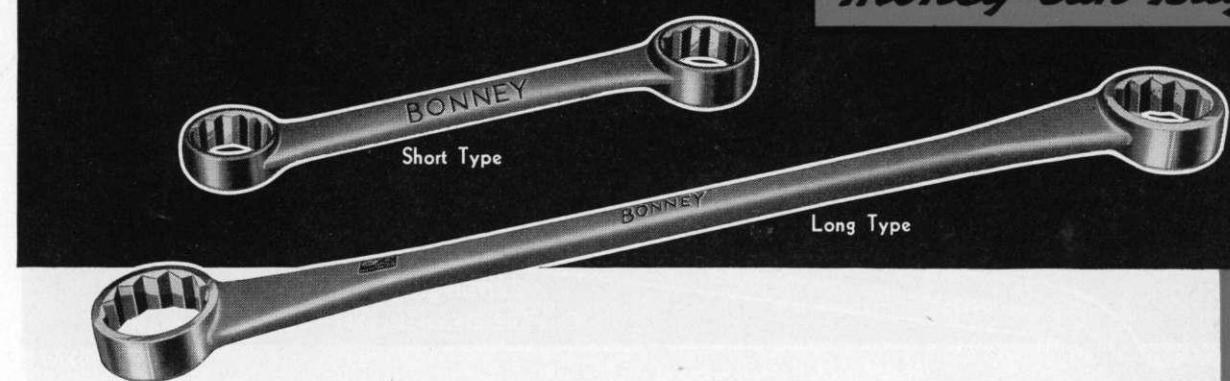
### BONALOY Long Type

Both Ends Offset—Different Openings Each End

No.	Openings	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Length
2804L	3/8 & 7/16	.....	3/16 & 1/4	& 1/4	8 1/2
2804B	13/32 & 1/2	3/16 & 1/4	1/4 & 5/16	& 5/16	8 3/4
2804C	7/16 & 1/2	& 1/4	1/4 & 5/16	1/4 & 5/16	8 3/4
2805L	1/2 & 9/16	1/4 &	5/16 & 3/8	5/16 & 3/8	9
2805B	1/2 & 15/32	1/4 & 5/16	5/16 &	5/16 &	9
2806L	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	9 1/2
2807A	5/8 & 11/16	.....	7/16 & 1/2	7/16 & 1/2	11
2807	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	11
2808B	11/16 & 25/32	3/8 & 7/16	1/2 & 5/8	1/2 & 5/8	11 1/2
2808	3/4 & 7/8	& 1/2	1/2 & 5/8	1/2 & 5/8	11 1/2
2809A	25/32 & 7/8	7/16 & 1/2	9/16 & 5/8	& 9/16	12 1/2
2809C	13/16 & 7/8	& 1/2	9/16 & 5/8	& 9/16	12 1/2
2809	7/8 & 15/16	1/2 &	9/16 & 5/8	9/16 & 5/8	12 1/2
2810B	7/8 & 31/32	1/2 & 9/16	5/8 &	9/16 & 11/16	13 1/2
2810C	7/8 & 1	1/2 &	5/8 & 3/4	9/16 & 11/16	13 1/2
2810A	15/16 & 31/32	& 9/16	.....	5/8 & 3/4	13 1/2
2810	15/16 & 1	.....	& 3/4	5/8 & 11/16	13 1/2
2811E	7/8 & 11/16	1/2 & 5/8	5/8 &	9/16 & 3/4	14 1/2
2811B	15/16 & 11/16	& 5/8	.....	5/8 & 3/4	14 1/2
2811A	1 & 11/16	& 5/8	3/4 &	11/16 & 3/4	14 1/2
2811	1 & 11/16	.....	3/4 & 7/8	11/16 &	14 1/2
2812B	11/16 & 11/4	5/8 & 3/4	& 1	3/4 & 7/8	16 1/2
2812C	11/8 & 11/4	& 3/4	7/8 & 1	3/4 & 7/8	16 1/2
2812	11/4 & 13/8	3/4 &	1 & 11/8	7/8 &	17 1/2
2812A	11/4 & 17/16	3/4 & 7/8	1 &	7/8 & 1	20
2813	17/16 & 15/8	7/8 & 1	& 13/8	1 & 11/8	23
2815	11 3/16 & 2	11/8 & 11/4	.....	11/4 & 13/8	24 1/4
2815A	2 & 23/8	11/4 & 11/2	.....	13/8 &	26
2819	23/16 & 25/8	13/8 & 11/2	.....	11/2 &	26
2821	29/16 & 23/4	15/8 & 13/4	.....	.....	28



# BONALOY 15° ANGLE BOX WRENCHES



**B**ONALOY 15° Angle Box Wrenches are designed for work in locations with low overhead clearance. Either side of the head may be applied.

Drop forged of Bonaloy Steel, they have long, thin, oval-

shaped handles affording a firm comfortable grip. Box walls are thin. They have double hexagon openings and are fully chrome plated with polished heads.

## Short Type—Double Hexagon Openings—Different Size Openings in Each End

No.	Openings	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Length
2885	5/16 & 3/8	1/8 & 3/16	1/8 & 3/16	.....	4"
2886	3/8 & 7/16	3/16 &	3/16 & 1/4	& 1/4	4 1/2"
2887	7/16 & 1/2	..... & 1/4	1/4 & 5/16	1/4 & 5/16	5"
2888	1/2 & 9/16	1/4 &	5/16 & 3/8	5/16 & 3/8	5 1/2"

## Long Type—Double Hexagon Openings—Different Size Openings in Each End

No.	Openings	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Length
2890	3/8 & 7/16	3/16 &	3/16 & 1/4	& 1/4	7 5/8
2890B	13/32 & 1/2	..... & 1/4	..... & 5/16	..... & 5/16	7 3/4
2890C	7/16 & 1/2	..... & 1/4	1/4 & 5/16	1/4 & 5/16	7 3/4
2891	1/2 & 9/16	1/4 &	5/16 & 3/8	5/16 & 3/8	8 5/8
2891A	1/2 & 19/32	1/4 & 5/16	5/16 &	5/16 &	8 5/8
2891C	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	9 1/4
2892	5/8 & 11/16	..... & 3/8	7/16 &	7/16 &	9 5/8
2892B	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	9 5/8
2893A	11/16 & 25/32	3/8 & 7/16	.....	.....	11
2893	3/4 & 13/16	.....	1/2 & 9/16	1/2 &	11
2893B	3/4 & 7/8	..... & 1/2	1/2 & 5/8	1/2 & 9/16	11
2894	7/8 & 15/16	1/2 &	5/8 &	9/16 & 5/8	13 1/4
2894A	7/8 & 1	1/2 &	5/8 & 3/4	9/16 & 11/16	13 1/4
2894B	15/16 & 1	.....	5/8 & 3/4	5/8 & 11/16	13 1/4
2895A	7/8 & 11/16	1/2 & 5/8	5/8 &	9/16 & 3/4	15 1/2
2895B	15/16 & 11/16	..... & 5/8	.....	5/8 & 3/4	15 1/2
2895	1 & 11/16	..... & 5/8	3/4 &	11/16 & 3/4	15 1/2
2895C	1 & 11/8	.....	3/4 & 7/8	11/16 &	15 1/2
2896	1 1/8 & 13/8	.....	7/8 & 11/8	.....	16
2897	1 1/4 & 1 7/16	3/4 & 7/8	1 &	7/8 & 1	18



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'CV' Chrome-Vanadium  
Extra-Small Box Wrenches  
Both Ends Offset  
Different Size Opening Each End



ZENEL Long Type Box Wrenches  
One End Offset—Double Hexagon Openings

## ZENEL LONG TYPE BOX WRENCHES

One end offset—Double Hexagon Openings—Same size openings both ends.

THIS series of Bonney Box Wrenches has only one end offset and has the same size double hexagon opening in each end of the wrench. They are drop-forged of ZENEL Steel, the toughest, hard

wrench steel ever developed, chrome plated, with polished heads. Handles are panelled affording a firm, comfortable grip. Box walls are thin. Consequently they are light in weight and suitable for work in the "hard-to-get-at" places.

No.	Openings	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Length
Z2814	7/16	.....	1/4	1/4	8
Z2816 Z2818	1/2 9/16	1/4	5/16 3/8	5/16 3/8	9 9 1/2
Z2820 Z2822 Z2824	5/8 11/16 3/4	3/8	7/16	7/16	10 11 11 1/2
Z2825 Z2826 Z2828	25/32 13/16 7/8	7/16	9/16 5/8	9/16	12 12 12 3/4
Z2830 *2832	15/16 1	1/2	1/2	5/8 11/16	13 1/2 15
*2834 *2836 *2839	1 1/16 1 1/8 1 1/4	5/8 7/8 3/4	3/4 1 1/8	3/4 7/8	17 1/2 17 1/2 17 1/2

\* These wrenches forged of Bonaloy Steel.

## 'CV' Chrome-Vanadium EXTRA-SMALL BOX WRENCHES

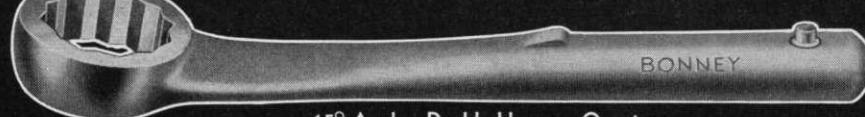
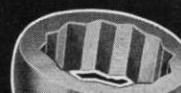
Both Ends Offset—Different Size Opening Each End

Bonney Extra-Small Box Wrenches are drop-forged of 'CV' Chrome-Vanadium Steel, chrome plated and polished. The two smaller sizes have single hexagon openings, while the two larger sizes have double hexagon openings. They are

ideal for generator, carburetor, starter, electrical and ignition work where parts are small and space in which to work is limited. Every mechanic needs a full set of these wrenches to handle small nuts and bolts.

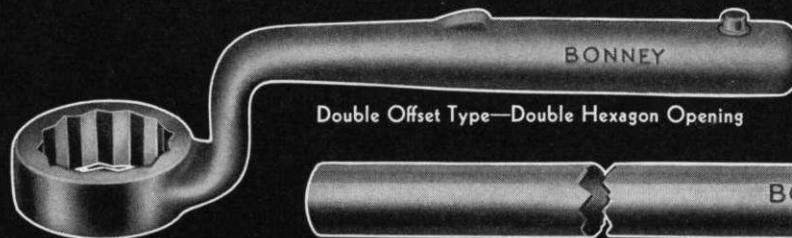
No.	Openings	Length	No.	Openings	Length
E40	3/16" & 13/64" Hexagon	2 7/8	E44	1/4" & 9/32" Double Hexagon	3 3/8
E42	7/32" & 15/64" Hexagon	3 1/8	E46	5/16" & 11/32" Double Hexagon	3 3/4

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BONNEY

15° Angle—Double Hexagon Opening



BONNEY

Double Offset Type—Double Hexagon Opening



BONNEY

Interchangeable Tubular Handle

## BONNEY HEAVY DUTY BOX WRENCHES

### 15° Angle - For Use With Tubular Handles - Double Hexagon Opening

**B**ONNEY Heavy Duty Box Wrenches with double hexagon openings are designed for breaking loose or tightening large diameter nuts with a minimum of effort. They will be found especially useful for work on trucks, buses, tractors, steam shovels, industrial machinery, road machinery, etc.

Drop-forged of chrome-alloy steel, they are carefully heat treated to insure the ultimate strength of the steel, and are heavily plated. All have highly polished heads. A positive locking device holds the wrenches firmly in the interchangeable handle designed to give extra leverage for turning the "toughest" nut.

Wrench No.	Size Opening	U. S. S. Bolt Size	U. S. S. Hex. Hd. Cap Screw	S. A. E. Std. Screw & Nut	American Std. Nuts; Size Bolt	American Std. Cap Screws; Size Screw	Thickness of Head	Diam. Shank
BA52	1 5/8	1	1 3/8	1 1/8			1	1
BA56	1 3/4						1	1
BA58	1 13/16	1 1/8		1 1/4			1 1/16	1
BA60	1 7/8				1 1/4		1 1/16	1
BA64	2	1 1/4		1 3/8			1 1/8	1
BA70	2 3/16	1 3/8		1 1/2			1 1/8	1
BA72	2 1/4				1 1/2		1 1/4	1

### Double Offset Type - For Use With Tubular Handles - Double Hexagon Opening

Of exactly the same quality and finish as the 15° angle Heavy Duty Box Wrenches, these wrenches are for use on the same types of work.

The double offset head permits their use in places inaccessible with any other type of wrench.

Wrench No.	Size Opening	U. S. S. Bolt Size	U. S. S. Hex. Hd. Cap Screw	S. A. E. Std. Screw & Nut	American Std. Nuts; Size Bolt	American Std. Cap Screws; Size Screw	Thickness of Head	Diam. Shank
BO52	1 5/8	1	1 3/8	1 1/8			1	1
BO54	1 13/16		1 1/4		1 1/8	1 1/4	1	1
BO56	1 3/4						1	1
BO58	1 13/16	1 1/8		1 1/4			1 1/16	1
BO60	1 7/8				1 1/4		1 1/16	1
BO64	2	1 1/4		1 3/8			1 1/8	1
BO70	2 3/16	1 3/8		1 1/2			1 1/8	1
BO72	2 1/4				1 1/2		1 1/4	1

## INTERCHANGEABLE TUBULAR HANDLE

### For Use with Bonney Heavy Duty Box Wrenches

Made of seamless steel tubing, this interchangeable handle provides the extra leverage necessary in turning large nuts. Holes are provided in each end of the handle to insure positive locking on the spring ball plunger in the ends of the wrench shank.

Both 15° Angle and Double Offset Type Heavy Duty Box Wrenches are interchangeable on the handle and the com-

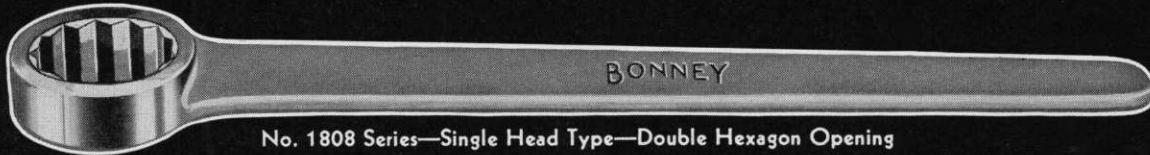
bination of any two can be used to make a double end wrench. Handle is heavily plated.

Handle No.	Inside Diameter	Outside Diameter	Length
BH32	1	1 1/4	30



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## BONALOY BOX WRENCHES



No. 1808 Series—Single Head Type—Double Hexagon Opening



No. 1820 Series—Striking Face—Offset Type—Double Hexagon Opening

### No. 1808 Series - Single Head Type - Double Hexagon Opening

**B**ONNEY Single Head Box Wrenches are drop forged of Bonaloy Steel, carefully heat-treated and heavily chrome plated with polished heads.

Long flat handles afford a comfortable grip and extreme leverage in "breaking-loose" or pulling up large size nuts. All have double hexagon openings.

Wrench No.	Opening	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Length	Wrench No.	Opening	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Length
1808	1 1/4	3/4	1	7/8	10 3/4	1811	1 13/16	1 1/8	.....	1 1/4	15
1808A	1 5/16	.....	.....	.....	10 3/4	1812	2	1 1/4	.....	1 3/8	16 1/2
1809	1 7/16	7/8	.....	1	12	1813	2 3/16	1 3/8	.....	1 1/2	18
1809A	1 1/2	.....	1 1/8	.....	12	1814	2 3/8	1 1/2	.....	.....	20
1810	1 5/8	1	.....	1 1/8	13 1/2						
1810A	1 11/16	.....	1 1/4	.....	13 1/2						

### No. 1820 Series - Striking Face - Offset Type - Double Hexagon Opening

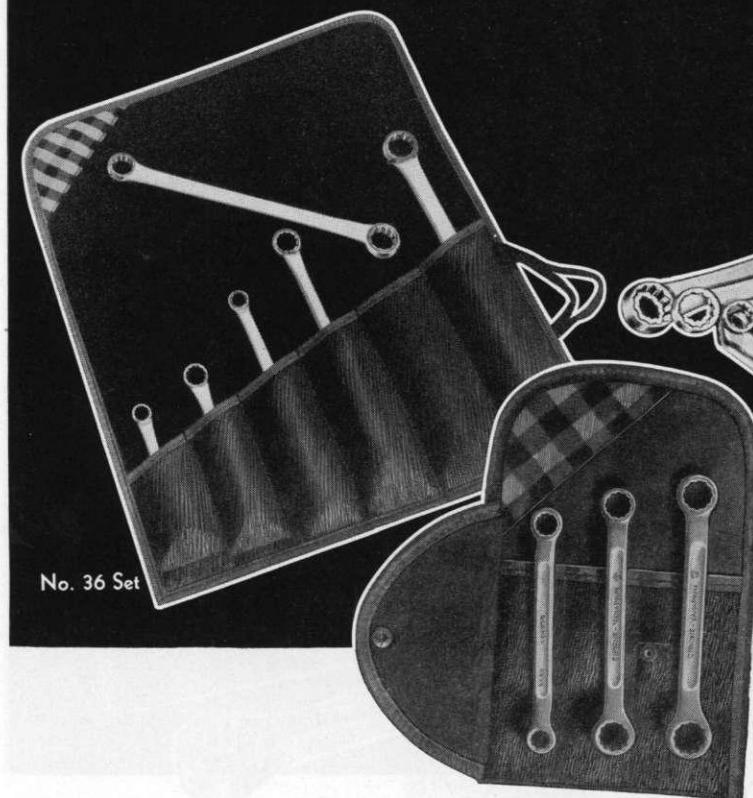
**D**ESIGNED especially for heavy work in close quarters where large nuts must be set up tight or frozen nuts loosened.

They are drop forged of Bonaloy Steel, properly heat-treated

to withstand shocks and have large striking area. Furnished with double hexagon opening and finished in baked gray enamel all over.

Wrench No.	Opening	U.S.S. Bolt Size	S.A.E. Std. Screw & Nut	Extreme Length	Head		Wrench No.	Opening	U.S.S. Bolt Size	S.A.E. Std. Screw & Nut	Extreme Length	Head	
					Thickness	Outside Diameter						Thickness	Outside Diameter
1820	1 7/16	7/8	1	11 1/2	1	2 3/8	1824	2 3/16	1 3/4	1 1/2	13 1/2	1 3/8	3 15/32
1821	1 5/8	1	1 1/8	12	1 1/16	2 5/8	1825	2 3/8	1 1/2	.....	14	1 1/2	3 23/32
1822	1 13/16	1 1/8	1 1/4	12 1/2	1 1/8	2 25/32	1826	2 9/16	1 5/8	.....	14 1/2	1 5/8	3 29/32
1823	2	1 1/4	1 3/8	13	1 1/4	3 5/32	1827	2 3/4	1 3/4	.....	15	1 3/4	4 5/32

# BONNEY BOX WRENCH SETS



**No. 29 Set**  
3 Pieces

THE No. 29 Set contains the three short type box wrenches for which the most general use is found. Drop forged of Bonaloy Steel, they are chrome plated and the heads are buffed to a high, permanent lustre. Handles are oval-shaped and assure a firm, comfortable grip.

They are especially useful in making distributor and carburetor adjustments, installation of heaters, radios, etc. in automobiles where space in which to work is limited.

One each of the following wrenches are included:

Nos. 2804      2805      2806

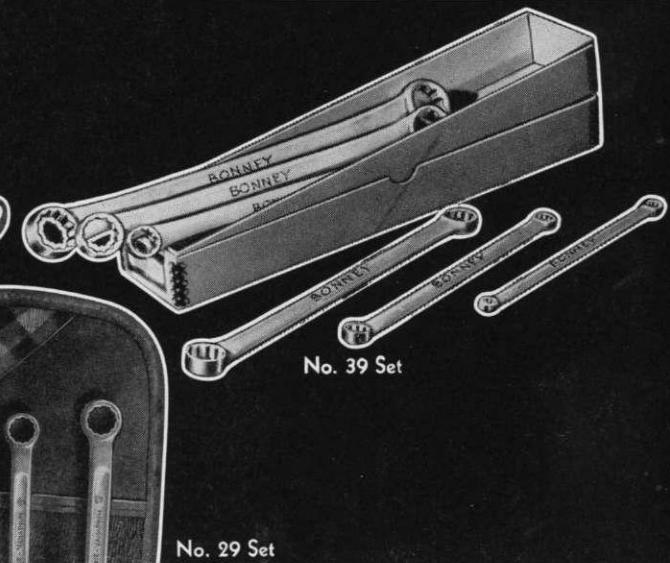
All have both ends offset and different size double hexagon opening in each end. The set may be had in substantial cardboard box or handy, leatherette roll.

**No. 36 Set**  
6 Pieces

The No. 36 Set contains six Bonney Box Wrenches drop forged of Bonaloy Steel with heads offset at a 15° angle. Included in the set are two short type wrenches and four of



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the long type. They have different size double hexagon openings. Each wrench is heavily chrome plated, has polished heads and is fully guaranteed.

Included are one each wrenches:

Nos. 2886	Nos. 2890	Nos. 2892
2888	2891	2893

The set may be had in convenient leatherette roll or handy, cardboard box.

**No. 39 Set**  
6 Pieces

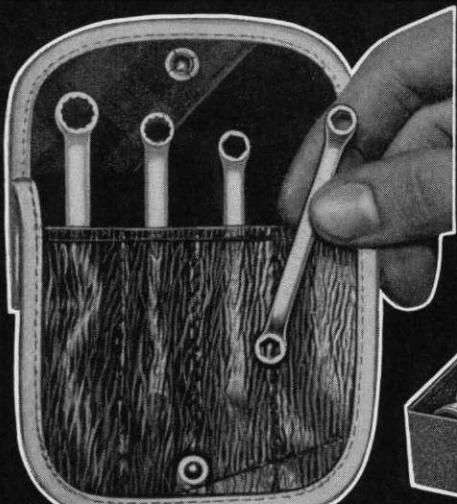
Here's a set of 15° angle, long type Bonney Box Wrenches that is the finest money can buy. Drop forged of Bonaloy Steel, each wrench has a different size opening in each end. They are fully chrome plated with heads buffed to a high, permanent lustre.

It contains six wrenches in a strong, cardboard box, one each of the following being included:

Nos. 2890	Nos. 2892	Nos. 2894
2891	2893	2895



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No. 21 Set



No. Z34 Set

### No. 21 Set

4 Pieces

A set of four extra-small box wrenches, that are ideal for work on ignition systems, generators, starters, heaters, etc.

They are drop forged of Bonney 'CV' Chrome-Vanadium Steel, heavily chrome plated and with polished heads. The two smaller sizes have single hexagon openings, while the two larger sizes have double hexagon openings.

Included are one each wrenches:

Nos. E40	Nos. E44
E42	E46

They are packed in a convenient leatherette roll or handy cardboard box.

### No. Z34 Set

12 Pieces

THE No. Z34 Bonney Box Wrench Set is an assortment of twelve double end box wrenches for practically all general purpose work.

It contains nine ZENEL long type box wrenches with one end offset and three Bonaloy short type box wrenches with both ends offset. The long type wrenches have the same size double hexagon opening in each end, while the short type wrenches have different size openings in each end. They are heavily chrome plated and have polished heads.

Included are one each of the following:

Nos. Z2814	Nos. Z2822	Nos. Z2830
Z2816	Z2824	2804
Z2818	Z2826	2805
Z2820	Z2828	2806

They may be had in a cardboard box or a sturdy, attractively finished metal box which measures  $13\frac{3}{4}'' \times 5\frac{1}{8}'' \times 1\frac{5}{8}''$ .

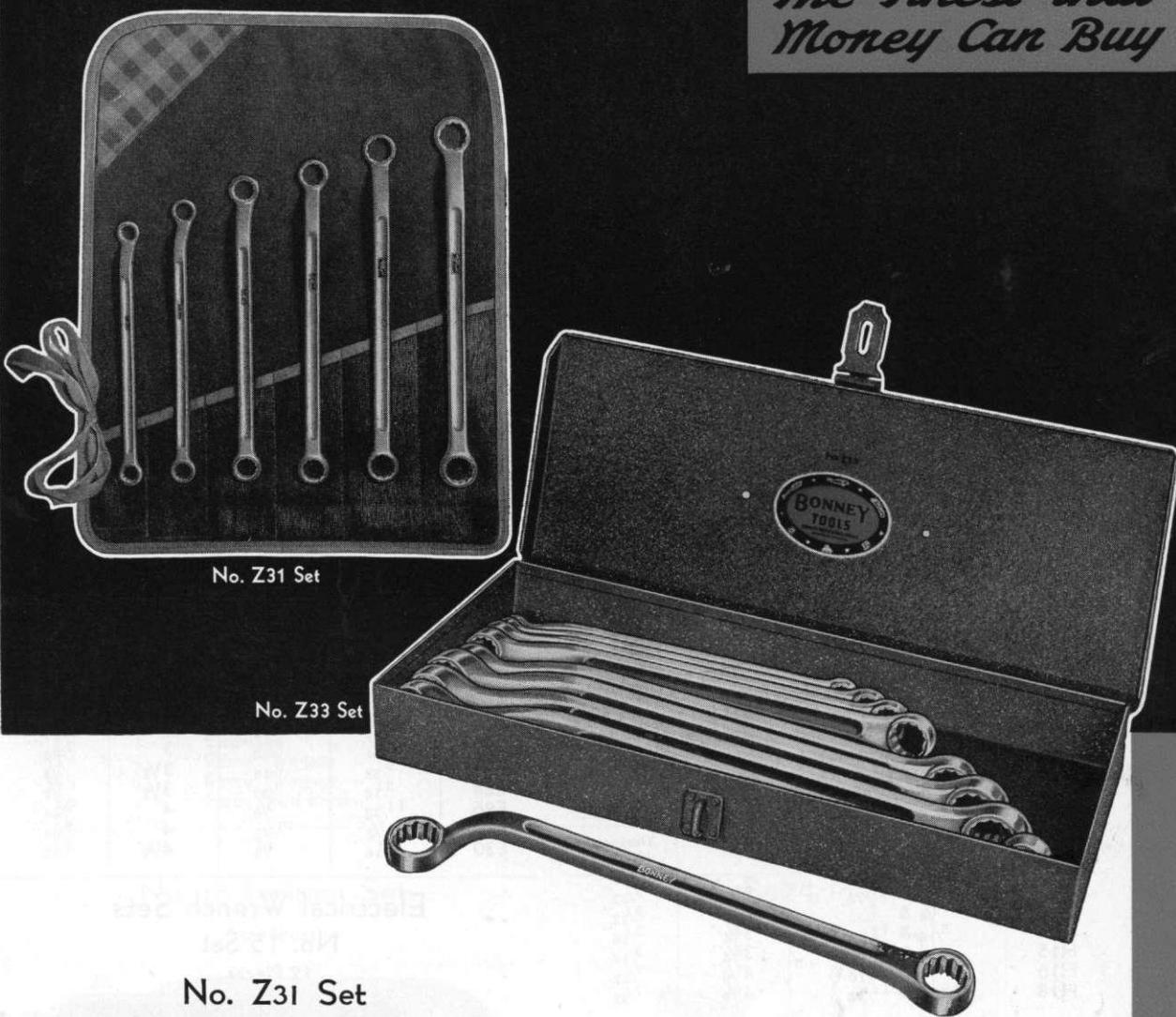
Net Weight in Cardboard Box  $5\frac{3}{8}$  lbs.

Net Weight in Metal Box 8 lbs.



## BONNEY BOX WRENCH SETS

*The Finest that Money Can Buy*



### No. Z31 Set

6 Pieces

THE No. Z31 Box Wrench Set is an assortment of six long, double end box wrenches with one end offset. The wrenches are drop forged of ZENEL Steel, the toughest, hard wrench steel ever developed. Light in weight and unusually thin, they are especially adapted for work in "hard-to-get-at" places and will stand up under the most severe strains.

They have the same size double hexagon openings in both ends, ranging from  $7/16''$  to  $3/4''$ . One each of the following wrenches are included:

Nos. Z2814

Z2816

Z2818

Nos. Z2820

Z2822

Z2824

They are heavily chrome plated, with heads buffed to a high permanent lustre. Can be had in handy, leatherette roll or strong, cardboard box.

### No. Z33 Set

9 Pieces

THE No. Z33 Box Wrench Set is an assortment of nine long type, double end box wrenches with one end offset. All are drop forged of ZENEL Steel, are light in weight, unusually strong and have thin, panelled handles that assure a firm, comfortable grip. They are fully chrome plated, the heads being buffed to a high, permanent lustre. These wrenches have the same size double hexagon opening in each end. One each of the following numbers are included:

Nos. Z2814

Z2816

Z2818

Nos. Z2820

Z2822

Z2824

Nos. Z2826

Z2828

Z2830

Furnished in an attractively finished, strong metal box measuring  $13\frac{3}{4}'' \times 5\frac{1}{8}'' \times 1\frac{5}{8}''$  or in cardboard box.

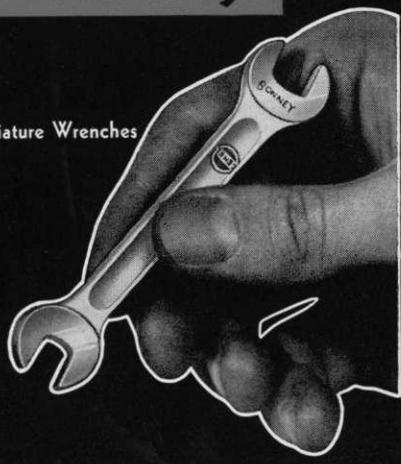
Net weight, in Metal box  $7\frac{1}{2}$  lbs.

Net weight, in cardboard box 5 lbs.

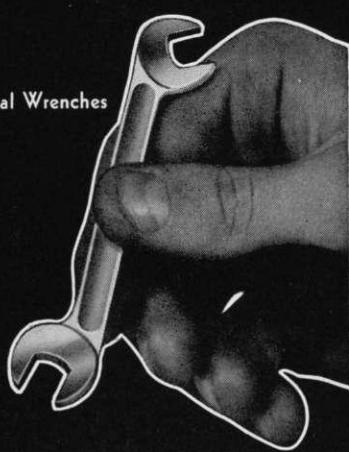


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ZENEL Miniature Wrenches



ZENEL Electrical Wrenches



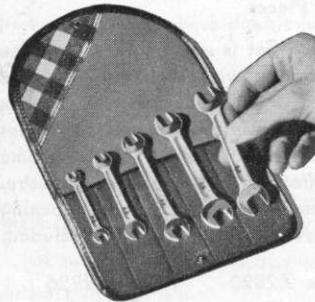
### ZENEL Miniature Wrenches

BONNEY ZENEL Miniature Wrenches are ideal for delicate work such as adjustments on magnetos, generators, radios, timers, air cleaners, carburetors, electrical parts and similar jobs.

Bonney Miniature Wrenches are drop forged of ZENEL, the hardest, tough wrench steel on the market. They are fully guaranteed. Designed with concave handles to insure a secure grip, they have narrow pear-shaped heads and are perfectly balanced. They are fully chrome-plated with polished heads and have different size openings in each end.

Wrench No.	Openings Milled	Length	Thickness Heads
H10	3/16 & 7/32	2 1/2"	3/32"
H12	1/4 & 9/32	3"	5/32"
H14	5/16 & 11/32	3 3/4"	3/16"
H15	9/32 & 3/8	3 3/4"	3/16"
H16	3/8 & 7/16	4 1/8"	7/32"
H18	13/32 & 15/32	4 1/8"	7/32"

### No. 20 Miniature Wrench Set



The No. 20 Bonney Miniature Wrench Set is exceptionally useful for work on radios, magnetos, generators, air cleaners and similar types of work.

It contains five ZENEL Miniature Open End Wrenches, one each:

Nos. H10      Nos. H14  
H12      H16  
            Nos. H18

with openings listed in the table above.

### ZENEL Electrical Wrenches

BONNEY Electrical Wrenches are drop forged of ZENEL Steel and are designed to take care of practically any wrench requirements for that class of work. They have different size openings in each end—one being placed at 15° angle, the other at 60° angle.

## ZENEL MINIATURE and ELECTRICAL WRENCHES

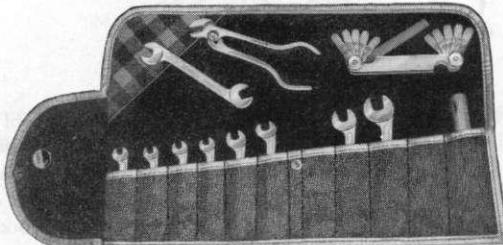
They are carefully heat treated, fully chrome plated with buffed heads and are fully guaranteed.

Wrench No.	Openings		Length	Thickness
	15° End	60° End		
E14	13/64"	15/64"	3"	7/64"
E16	15/64"	13/64"	3"	7/64"
E18	7/32"	1/4"	3"	7/64"
E20	1/4"	7/32"	3"	7/64"
E22	9/32"	5/16"	3 1/2"	1/8"
E24	5/16"	9/32"	3 1/2"	1/8"
E26	11/32"	3/8"	4"	9/64"
E28	3/8"	11/32"	4"	9/64"
E30	7/16"	1/2"	4 1/2"	5/32"

### Electrical Wrench Sets

#### No. 15 Set

12 Pieces



This is the most complete electrical set offered—contains 9 ZENEL Wrenches, one screw driver, an ignition plier and an ignition feeler gauge. It may be had in cardboard box or leatherette roll. Included are one each:

No. E14 Wrench	No. E26 Wrench
E16 "	E28 "
E18 "	E30 "
E20 "	001 Pocket Size Screw Driver
E22 "	B424 Channellock Ignition Plier
E24 "	K52 Ignition Feeler Gauge

#### No. 16 Set

9 Pieces

This set is exactly the same as the No. 15 set except that it consists of the electrical wrenches only. One each of the following are included—Nos. E14, E16, E18, E20, E22, E24, E26, E28 and E30.

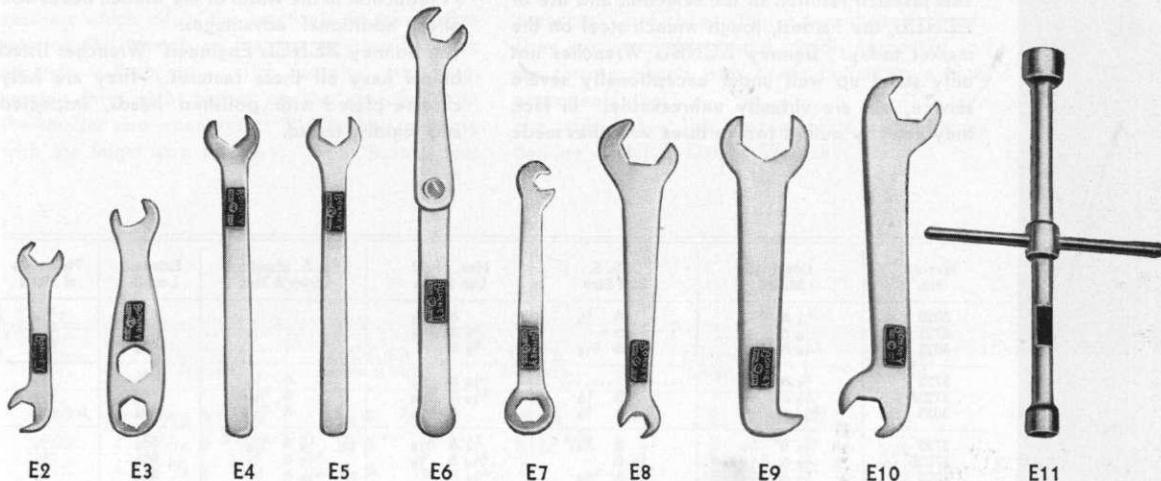


## IGNITION WRENCHES

BONNEY Ignition Wrenches are designed to take care of specialized operations in the repair of starters, generators, etc. of various types, as listed in the table below. All are forged of 'CV' Chrome-Vanadium Steel, chrome plated. Every mechanic should include in his tool kit a complete set of these wrenches to take care of the ignition work which

comes into his shop. The table below lists the various wrenches available and the ignition systems for which they are adapted.

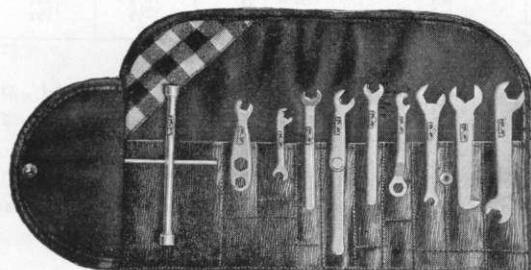
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No.	Description	No.	Description
E2	Northeast, Splitdorf, Bosch	E7	Bosch Du 4 or Du 6, Autolite
E3	Eisemann	E8	Delco-Remy
E4	Remy, Wagner	E9	Remy Cam
E5	Remy, Wagner	E10	Autolite Generator
E6	Ford, Third Brush	E11	Bosch

### No. 18 Ignition Set

10 Pieces

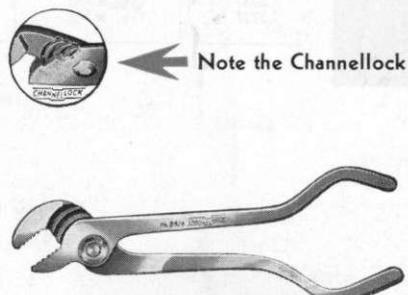


The Bonney No. 18 Ignition Set contains ten ignition wrenches, all made of 'CV' Chrome-Vanadium Steel. They are designed for work on the most popular ignition and electrical systems, such as Autolite, Bosch, Delco, Eisemann, Northeast, Remy, Splitdorf, Westinghouse, etc. Each wrench is designed to be the most efficient for its particular application. They are light in weight and so strong that they are fully guaranteed.

Contains one each of the following:

Nos. E2	Nos. E5	Nos. E9
E3	E6	E10
E4	E7	E11
	E8	

### No. B424 Ignition Plier



Drop forged from finest quality alloy steel, carefully heat-treated, this plier has unusual strength because of the patented Channellock design.

The strain is removed from the bolt because of the Channellock feature, and there is no danger of the bolt breaking.

Has polished finish—four adjustments. Length 4½". Net weight 1⅓ ounces.



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tion by Bonney engineers and metallurgists to discover a wrench steel that is the ultimate in toughness, wear resisting properties and strength. This research resulted in the selection and use of ZENEL, the hardest, tough wrench steel on the market today. Bonney ZENEL Wrenches not only stand up well under exceptionally severe service, but are virtually unbreakable. In fact, they actually outlast two or three wrenches made

## ZENEL ENGINEERS' WRENCHES

### BONNEY ZENEL

Wrenches are the culmination of years of research and experimental-

from ordinary steels.

By taking advantage of the peculiar properties of this new steel, Bonney has been able to redesign the wrenches themselves. As a result, all ZENEL Wrenches have a handle section which is concave, and which allows the mechanic to obtain a firm, comfortable grip on the wrench. A reduction in the width of the wrench heads also offers additional advantages.

The Bonney ZENEL Engineers' Wrenches listed below have all these features. They are fully chrome plated with polished heads, inspected and rigidly tested.

Wrench No.	Openings Milled	U. S. S. Bolt Size	Hex. Head Cap Screw	S.A.E. Standard Screw & Nut	Extreme Length	Thickness of Head
3020	1/4 & 5/16 5/16 & 3/8 5/16 & 13/32	8 & 1/8 1/8 & 3/16	1/4 & 1/8 1/8 & 3/16	.....	4 1/4	3/16
3721	.....	.....	.....	.....	4 1/4	3/16
3021	.....	.....	.....	.....	4 1/4	3/16
3723	3/8 & 7/16	.....	3/16 & 1/4	8 & 1/4	4 3/4	7/32
3723A	3/8 & 1/2	8 & 1/4	3/16 & 5/16	8 & 5/16	4 3/4	7/32
3023	13/32 & 1/2	3/16 & 1/4	8 & 5/16	8 & 5/16	4 3/4	7/32
3725	7/16 & 1/2	8 & 1/4	1/4 & 5/16	1/4 & 5/16	5 3/4	1/4
3725B	1/2 & 9/16	1/4 & 5/16	5/16 & 3/8	5/16 & 3/8	5 3/4	1/4
3025	1/2 & 19/32	1/4 & 5/16	5/16 & 8	5/16 & 8	5 3/4	1/4
3727	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	7	9/32
3027C	9/16 & 11/16	8 & 3/8	3/8 &	3/8 &	7	9/32
3027	19/32 & 11/16	5/16 & 3/8	.....	.....	7	9/32
3028S	5/8 & 25/32	8 & 7/16	7/16 &	7/16 &	8	5/16
3729	5/8 & 3/4	7/16 & 1/2	7/16 & 1/2	7/16 & 1/2	8	5/16
3029	11/16 & 25/32	3/8 & 7/16	.....	.....	8	5/16
3731	3/4 & 13/16	.....	1/2 & 9/16	1/2 & 9/16	9 1/2	3/8
3731A	3/4 & 7/8	8 & 1/2	1/2 & 5/8	1/2 & 5/8	9 1/2	3/8
3031	25/32 & 7/8	7/16 & 1/2	8 & 5/8	8 & 5/8	9 1/2	3/8
3033A	7/8 & 15/16	1/2 & 9/16	5/8 &	9/16 & 5/8	9 1/2	3/8
3033	7/8 & 31/32	1/2 & 9/16	5/8 &	9/16 & 5/8	9 1/2	3/8
3733	7/8 & 1	1/2 &	5/8 & 3/4	9/16 & 11/16	11	15/32
3033C	15/16 & 1	.....	8 & 3/4	5/8 & 11/16	11	15/32
3034	7/8 & 11/16	1/2 & 5/8	5/8 &	9/16 & 3/4	11	15/32
3034A	15/16 & 11/16	8 & 5/8	.....	8 & 3/4	11	15/32
3035	31/32 & 11/16	9/16 & 5/8	.....	8 & 3/4	11	15/32
3735	1 & 11/8	.....	3/4 & 7/8	11/16 &	12 1/2	17/32
3037	11/16 & 11/4	5/8 & 3/4	8 & 1	3/4 & 7/8	12 1/2	17/32
3737	1 1/8 & 11/4	8 & 3/4	7/8 & 1	8 & 7/8	12 1/2	17/32

### No. Z25 Wrench Set

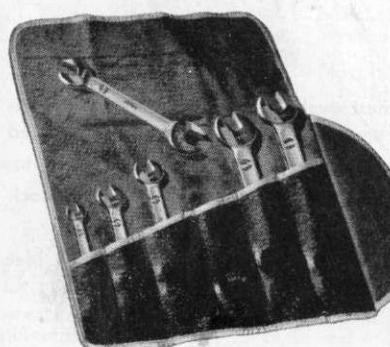
Bonney Engineers' Set No. Z25 contains six ZENEL Engineers' Wrenches as follows:

Nos. 3723  
3025  
3027C

Nos. 3028S  
3731A  
3033C

as listed in the table above.

This set is supplied either in cardboard box or handy leatherette roll.



### No. Z26 Wrench Set

The No. Z26 Bonney Wrench Set is very complete, containing eight ZENEL Engineers' Wrenches as follows:

Nos. 3723  
3725  
3725B  
3025

Nos. 3727  
3729  
3029  
3731A

as listed in the table above.



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## ZENEL TAPPET WRENCHES

BONNEY Tappet Wrenches of the 3420 series are made of ZENEL, the Bonney Wrench Steel described on the previous page. The handles of this series of Bonney Wrenches have concave sections which allow the mechanic to take a firm grip on the wrench so that he may easily make accurate adjustments. The handles are long, ranging from eight inches on the wrenches with the smaller size openings to 9½ inches on those with the larger size openings. All these tappet

wrenches have their openings at an angle of 15°, and have different size openings in each end. Bonney ZENEL Tappet Wrenches are perfectly balanced, lighter in weight than ordinary steel wrenches, and have thin, pear-shaped heads. They are thoroughly tested, rigidly inspected and are chrome plated with heads buffed to a high, permanent lustre.

The table below lists the complete 3420 line of Bonney ZENEL Tappet Wrenches.

Wrench No.	Openings Milled	S. A. E. Std. Screw & Nut	U. S. S. Bolt Size	Extreme Length	Thickness of Head
3420A	7/16 & 1/2	1/4 & 5/16	& 1/4	8	5/32
3420	7/16 & 17/32	1/4 &	.....	8	5/32
3422	1/2 & 9/16	5/16 & 3/8	1/4 &	8	5/32
3424B	9/16 & 5/8	3/8 & 7/16	.....	8½	3/16
3424	5/8 & 11/16	7/16 &	& 3/8	8½	3/16
3424A	5/8 & 3/4	7/16 & 1/2	.....	8½	3/16
3425	3/4 & 13/16	1/2 &	.....	9	7/32
3426	3/4 & 7/8	1/2 & 9/16	& 1/2	9	7/32
3428	15/16 & 1	5/8 & 11/16	.....	9½	7/32

### No. Z22 Tappet Wrench Set

The No. Z22 Tappet Wrench Set contains six Bonney ZENEL Tappet Wrenches, two each of the following wrenches making up the set:

Nos. 3422

3424

3426

with openings as listed in the table above.

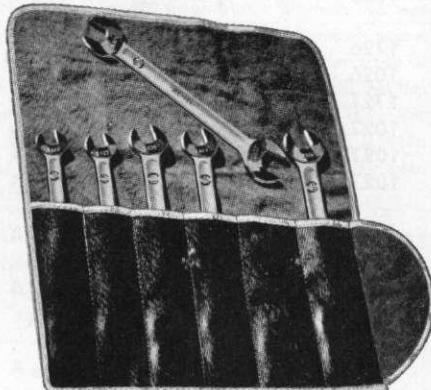
### No. Z23 Tappet Wrench Set

The No. Z23 Tappet Wrench Set contains two each of four sizes of the No. 3420 series ZENEL Tappet Wrenches as follows:

Nos. 3420  
3422

Nos. 3424  
3426

They have openings as listed in the table above.



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'CV' Chrome-Vanadium  
ENGINEERS' WRENCHES



Openings at 15° Angle

BONNEY 'CV' Chrome-Vanadium Engineers' Wrenches are thinner, longer and stronger than carbon steel wrenches with the same size opening. The use of Bonney 'CV' Chrome-Vanadium Steel allows refinement of design both in the shape and the thickness of the wrench head. In addition, the thin, pear-shaped head, made possible by the use of this steel, makes the Bonney 'CV' Line lighter, better

balanced and more serviceable. This is especially important where it is necessary to work in confined places and still have exceptional strength in the wrench. All Bonney 'CV' Engineers' Wrenches are chrome plated with heads buffed to a high, permanent lustre, are rigidly inspected and are fully guaranteed.

No.	Openings Milled	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Extreme Length	Thickness of Head
1020	1/4 & 5/16	& 1/8	& 1/8	.....	3	5/32
1721	5/16 & 3/8	1/8 &	1/8 & 3/16	.....	3 7/8	3/16
1021	5/16 & 13/32	1/8 & 3/16	1/8 &	.....	3 7/8	3/16
1722	5/16 & 7/16	1/8 &	1/8 & 1/4	& 1/4	4 1/8	7/32
1723	3/8 & 7/16	.....	3/16 & 1/4	& 1/4	4 1/8	7/32
1022	5/16 & 1/2	1/8 & 1/4	1/8 & 5/16	& 5/16	4 1/2	7/32
1023	13/32 & 1/2	3/16 & 1/4	& 5/16	& 5/16	4 1/2	7/32
1723A	3/8 & 1/2	& 1/4	3/16 & 5/16	& 5/16	4 1/2	7/32
1024	13/32 & 19/32	3/16 & 5/16	.....	.....	5 5/8	15/64
1725	7/16 & 1/2	& 1/4	1/4 & 5/16	1/4 & 5/16	5 5/8	15/64
1725A	7/16 & 9/16	.....	1/4 & 3/8	1/4 & 3/8	5 5/8	15/64
1725B	1/2 & 9/16	1/4 &	5/16 & 3/8	5/16 & 3/8	6 1/8	1/4
1025	1/2 & 19/32	1/4 & 5/16	5/16 &	5/16 &	6 1/8	1/4
1726	1/2 & 5/8	1/4 &	5/16 & 7/16	5/16 & 7/16	6 1/2	9/32
1026	1/2 & 11/16	1/4 & 3/8	5/16 &	5/16 &	6 1/2	9/32
1727	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	6 1/2	9/32
1027A	5/8 & 11/16	& 3/8	7/16 &	7/16 &	6 1/2	9/32
1027	19/32 & 11/16	5/16 & 3/8	.....	.....	6 1/2	9/32
1027C	9/16 & 11/16	& 3/8	3/8 &	3/8 &	6 1/2	9/32
1028	19/32 & 25/32	5/16 & 7/16	.....	.....	7 1/2	5/16
1728	9/16 & 3/4	.....	3/8 & 1/2	3/8 & 1/2	7 1/2	5/16
1028S	5/8 & 25/32	& 7/16	7/16 &	7/16 &	7 1/2	5/16
1729	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	7 1/2	5/16
1029	11/16 & 25/32	3/8 & 7/16	.....	.....	8 1/4	5/16
1730	5/8 & 13/16	.....	7/16 & 9/16	7/16 &	8 1/4	5/16



**'CV' Chrome-Vanadium  
ENGINEERS' WRENCHES**

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No.	Openings Milled	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Std. Screw & Nut	Extreme Length	Thickness of Head
1030D	11/16 & 13/16	3/8 &	& 9/16	.....	8 1/4	5/16
1030	11/16 & 7/8	3/8 & 1/2	& 5/8	& 9/16	8 1/4	5/16
1731	3/4 & 13/16	.....	1/2 & 9/16	1/2 &	9 1/4	13/32
1731A	3/4 & 7/8	.....	1/2 & 5/8	1/2 & 9/16	9 1/4	13/32
1031	25/32 & 7/8	7/16 & 1/2	.....	& 9/16	9 1/4	13/32
1731B	13/16 & 7/8	.....	9/16 & 5/8	& 9/16	9 1/4	13/32
1732A	3/4 & 1	.....	1/2 & 3/4	1/2 & 11/16	10	7/16
1032	25/32 & 31/32	7/16 & 9/16	.....	.....	10	7/16
1732	13/16 & 1	.....	9/16 & 3/4	.....	10	7/16
1033A	7/8 & 15/16	1/2 &	5/8 &	9/16 & 5/8	10	7/16
1033	7/8 & 31/32	1/2 & 9/16	5/8 &	9/16 &	10	7/16
1733	7/8 & 1	1/2 &	5/8 & 3/4	9/16 & 11/16	10 1/2	15/32
1033C	15/16 & 1	.....	.....	5/8 & 11/16	10 1/2	15/32
1034	7/8 & 11/16	1/2 & 5/8	5/8 &	9/16 & 3/4	10 1/2	15/32
1734	7/8 & 11/8	1/2 &	5/8 & 7/8	9/16 &	10 1/2	15/32
1034A	15/16 & 11/16	.....	.....	5/8 & 3/4	10 1/2	15/32
1035	31/32 & 11/16	9/16 & 5/8	.....	.....	10 1/2	15/32
1735	1 & 11/8	.....	3/4 & 7/8	11/16 &	12	17/32
1036	31/32 & 11/4	9/16 & 3/4	.....	.....	12	17/32
1736	1 & 11/4	.....	3/4 & 1	11/16 & 7/8	12	17/32
1037	11/16 & 11/4	5/8 & 3/4	.....	3/4 & 7/8	12	17/32
1737	11/8 & 11/4	.....	7/8 & 1	.....	12	17/32
1037F	11/8 & 13/8	.....	7/8 & 11/8	.....	12	17/32
1037E	13/16 & 15/16	.....	.....	.....	12	17/32
1038	11/16 & 17/16	5/8 & 7/8	.....	3/4 & 1	14	9/16
1738	11/8 & 13/8	.....	7/8 & 11/8	.....	14	9/16
1739	1 1/4 & 13/8	3/4 &	1 & 11/8	7/8 &	14	9/16
1039	1 1/4 & 17/16	3/4 & 7/8	1 &	7/8 & 1	14	9/16
1739A	1 1/4 & 11/2	3/4 &	1 & 11/4	7/8 &	14	9/16
1739B	1 3/8 & 11/2	.....	11/8 & 11/4	.....	14	9/16
1040	1 1/4 & 15/8	3/4 & 1	1 & 13/8	7/8 & 11/8	14	9/16
1041	17/16 & 15/8	7/8 & 1	.....	1 & 11/8	15 1/2	13/16



**No. 25 'CV' Chrome-Vanadium  
Engineers' Wrench Set**

The No. 25 Bonney Engineers' Wrench Set was assembled to offer the mechanic and general user a wrench set to cover all of the most popular sizes of nuts and bolts. Every wrench in the No. 25 Set has a different size opening in each end. They are made of 'CV' Chrome-Vanadium Steel, are light in weight and have pear shaped heads to easily gain access to the "hard-to-get-at" places.

The No. 25 Set contains one each of the following wrenches:

Nos. 1723

1025

1027C

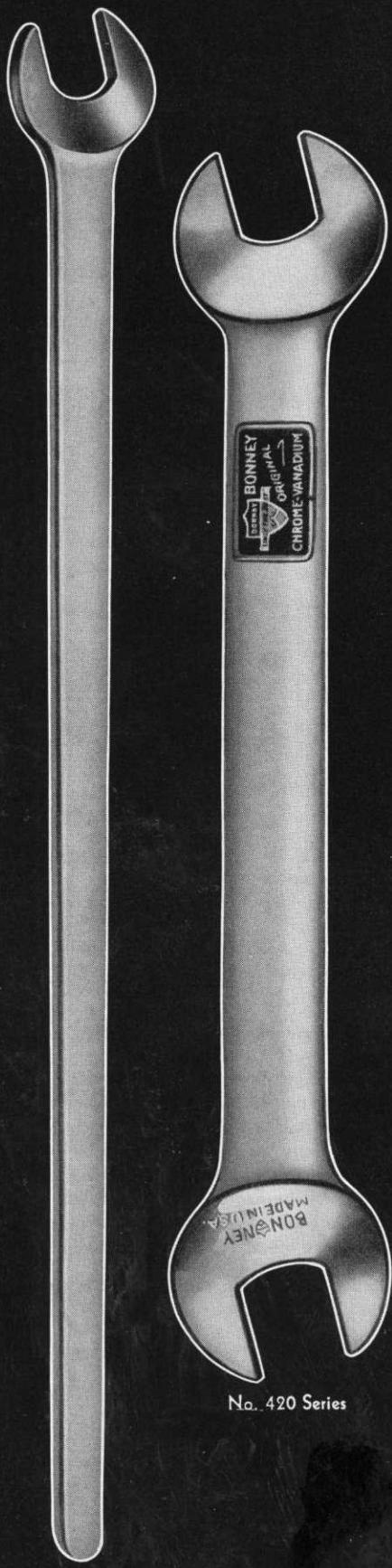
Nos. 1028S

1731A

1033C



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## No. 420 SERIES 'CV' Chrome-Vanadium TAPPET WRENCHES

EVERY wrench in the No. 420 Series has a different size opening in each end. The openings are at a  $15^{\circ}$  angle. The wrenches of the No. 420 Series also "step up" correspondingly in length. They are of exceptionally long design, have thin, pear-shaped heads and are fully guaranteed when used for tappet adjusting.

Wrench Number	Openings Milled	S.A.E. Std Screw & Nut	U. S. S. Bolt Size	Length	Thickness of Head
420A	7/16 & 1/2	1/4 & 5/16	& 1/4	8	5/32
420	7/16 & 17/32	1/4 &	.....	8	5/32
422	1/2 & 9/16	5/16 & 3/8	1/4 &	8	5/32
424B	9/16 & 5/8	3/8 & 7/16	.....	8 1/2	3/16
424	5/8 & 11/16	7/16 &	& 3/8	8 1/2	3/16
424A	5/8 & 3/4	7/16 & 1/2	.....	8 1/2	3/16
425	11/16 & 3/4	&	1/2	9	7/32
425A	3/4 & 13/16	1/2 &	.....	9	7/32
426	3/4 & 7/8	1/2 &	9/16	9	7/32
426A	13/16 & 7/8	&	9/16	9	7/32
428	15/16 & 1	5/8 & 11/16	.....	9 1/2	7/32

### No. 22 Tappet Wrench Set

The No. 22 Tappet Wrench Set is complete and adaptable to almost every make and model of passenger car and truck. It contains two each of the following No. 420 Series Tappet Wrenches:

No. 422 No. 424 No. 426 with openings as shown in the above table.

They are made of 'CV' Chrome-Vanadium Steel and "step-up" correspondingly in length to make tappet adjusting easier. All have openings set at  $15^{\circ}$ . Packed either in cardboard box or leatherette roll.



### No. L402 Series Extra Long Tappet Wrenches

These extra-long, thin, tappet wrenches are specially suited for tappet adjustments on late model cars where it is necessary to make adjustments from underneath the car. Heads are extremely thin, with openings at  $22\frac{1}{2}^{\circ}$ . Made of 'CV' Chrome-Vanadium Steel, chrome plated, with polished heads.

Wrench Number	Opening Milled	S. A. E. Std. Screw & Nut	U. S. S. Bolt Size	Extreme Length	Thickness of Head
L401A	7/16	1/4	.....	15	3/16
L402	1/2	5/16	1/4	15	3/16
L403	9/16	3/8	.....	15	3/16
L404	5/8	7/16	.....	15	3/16

# No. 401 SERIES 'CV' Chrome-Vanadium TAPPET WRENCHES



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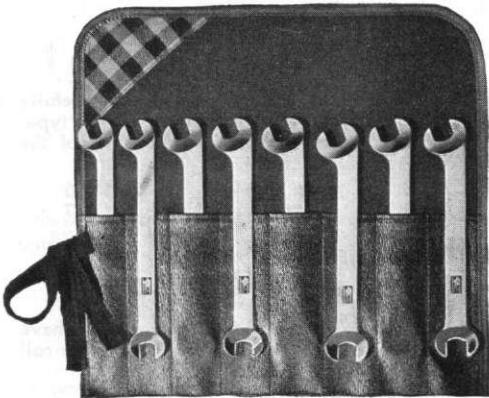
**BONNEY 'CV' Chrome-Vanadium Tappet Wrenches** of the 401 Series are of the proper length (eight inches) therefore allow the mechanic to work clear of the motor when it is hot. The angle of the heads also allows him to reach around into normally inaccessible locations.

Most cars require three wrenches to make

complete tappet adjustments. Consequently, the 401 Series Tappet Wrenches are designed so that two may be worked like scissors with one hand while the third is used in the other hand. Both openings in this series are of the same size but are at different angles. One opening is straight, the other at  $22\frac{1}{2}$ °.

Wrench No.	Openings Milled	S.A.E. Std. Screw & Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head
401	$\frac{3}{8}$	.....	.....	8	$\frac{5}{32}$
401A	$\frac{7}{16}$	$\frac{1}{4}$	.....	8	$\frac{5}{32}$
402	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	8	$\frac{5}{32}$
402A	$\frac{17}{32}$	.....	.....	8	$\frac{5}{32}$
403	$\frac{9}{16}$	$\frac{3}{8}$	.....	8	$\frac{5}{32}$
403A	$\frac{19}{32}$	.....	$\frac{5}{16}$	8	$\frac{5}{32}$
404	$\frac{5}{8}$	$\frac{7}{16}$	.....	8	$\frac{3}{16}$
404A	$\frac{21}{32}$	.....	.....	8	$\frac{3}{16}$
405	$1\frac{1}{16}$	.....	$\frac{3}{8}$	8	$\frac{3}{16}$
406	$\frac{3}{4}$	$\frac{1}{2}$	.....	8	$\frac{7}{32}$
406A	$\frac{25}{32}$	.....	$\frac{7}{16}$	8	$\frac{7}{32}$
407	$1\frac{3}{16}$	.....	.....	8	$\frac{7}{32}$
407A	$\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	8	$\frac{7}{32}$
408	$1\frac{5}{16}$	$\frac{5}{8}$	.....	8	$\frac{7}{32}$
408A	$3\frac{1}{32}$	.....	$\frac{9}{16}$	8	$\frac{7}{32}$
409	1	$1\frac{1}{16}$	.....	8	$\frac{7}{32}$

## No. 412 Tappet Wrench Set



The No. 412 Tappet Wrench Set will handle the tappet adjustments on a large number of makes of cars and trucks. It contains two each of four sizes of the No. 401 series as follows:

Nos. 402      Nos. 404  
403      405

with openings as shown in the table above.

Both openings in each wrench are the same, but one opening is straight while the other is at  $22\frac{1}{2}$  degrees.

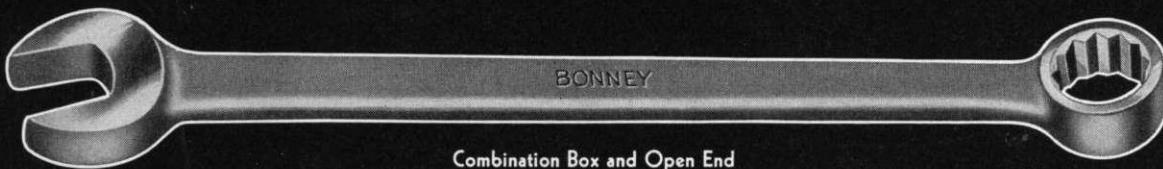
They are made of 'CV' Chrome-Vanadium Steel, chrome plated.



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## BONALOY TUTYPE WRENCHES



Combination Box and Open End

**D**ROP-FORGED of Bonaloy Steel, heavily chrome-plated with buffed heads, the advantages of this type of wrench are readily apparent to the experienced mechanic. Providing an open end and box wrench, each with the same size opening in the same tool, permits using the end most applicable to the job on hand.

The wide range of sizes in which they may be had makes them

adaptable for work on carburetors, generators, manifolds, clutches and starters, as well as general service work on trucks, buses, farm, industrial, oil drilling and refinery equipment. The box end has double hexagon openings, with heads set at 15° to give proper clearance for obstructions. The open end is angled at 15° for efficiency.

No.	Openings	U. S. S. Bolt Size	U. S. S. Hex. Hd. Cap Screw; Size Screw	S. A. E. Std. Screw & Nut	American Std. Nuts; Size Bolt	American Std. Cap Screw; Size Screw	Length
1160	3/8		3/16		No. 10		5
1161	7/16		1/4	1/4	No. 12 & 1/4	1/4	5 3/8
1162	1/2		5/16	5/16		5/16	6
1163	9/16		3/8	3/8		3/8	6 3/4
1164	5/8		7/16	7/16	3/8	7/16	7 3/4
1165	11/16	3/8					8 5/8
1166	3/4		1/2	1/2	7/16	1/2	9 1/2
1167A	13/16		9/16		1/2	9/16	11
1167	7/8	1/2	5/8	9/16	9/16	5/8	11
1168	15/16			5/8	5/8		13
1170	1		3/4	11/16		3/4	13
1171	1 1/16		5/8		3/4		15
1172	1 1/8		7/8		3/4	7/8	15
1173	1 1/4	3/4	1	7/8			18
1174	1 5/16				7/8	1	18
1176	1 7/16	7/8		1			21

## TUTYPE WRENCH SETS

### No. 42 Set

8 Pieces

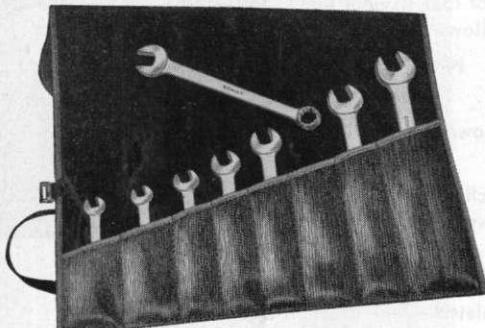
The eight Bonaloy TuType Wrenches in this set have been carefully selected to take care of the greatest requirements for wrenches of this type. Packed in a handy cardboard box or leatherette roll, one each of the following are included:

Nos. 1160  
1161

Nos. 1162  
1163

Nos. 1164  
1165

Nos. 1166  
1167



### No. 49 Set

5 Pieces

This set contains five Bonaloy TuType Wrenches with openings which have the greatest use in everyday work. The set is available in leatherette roll or cardboard box and includes one each wrenches:

No. 1161

No. 1162

No. 1163

No. 1164

No. 1165

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## 'CV' Chrome-Vanadium RIGHT ANGLE WRENCHES

BONNEY 'CV' Chrome-Vanadium Right-Angle Wrenches are designed for work in close quarters where it is impossible to use wrenches with openings at 15° or 22½°. Difficult adjustments of this type are found in work on brakes, manifolds, cylinder-heads, etc. The heads of Bonney

'CV' Right-Angle Wrenches are pear-shaped and of similar design to Bonney 'CV' Engineers' Wrenches. The handles are shaped to give the user a comfortable grip. They are chrome plated and have buffed heads. All are rigidly inspected, tested and are fully guaranteed.

Wrench No.	Openings Milled	U. S. S. Bolt Size	Hex. Head Cap Screw	S. A. E. Standard Screw and Nut	Extreme Length	Thickness of Head
2721	5/16 & 3/8	1/8 &	& 1/8	.....	4 1/4	7/32
2021	5/16 & 1 3/32	1/8 & 3/16	1/8 &	.....	4 1/4	7/32
2722	5/16 & 7/16	1/8 &	1/8 & 1/4	.....	4 1/4	7/32
2723	3/8 & 7/16	.....	3/16 & 1/4	.....	4 1/4	7/32
2022	5/16 & 1/2	1/8 & 1/4	1/8 & 5/16	.....	4 1/2	7/32
2023	1 3/32 & 1/2	3/16 & 1/4	1/8 & 5/16	.....	4 1/2	7/32
2723A	3/8 & 1/2	.....	3/16 & 5/16	.....	4 1/2	7/32
2724	3/8 & 9/16	.....	3/16 & 3/8	.....	5 1/2	15/64
2024	1 3/32 & 1 19/32	3/16 & 5/16	1/4 & 5/16	1/4 & 5/16	5 1/2	15/64
2725	7/16 & 1/2	.....	1/4 & 3/8	1/4 & 3/8	5 1/2	15/64
2725A	7/16 & 9/16	.....	5/16 & 3/8	5/16 & 3/8	5 1/2	15/64
2725B	1/2 & 9/16	1/4 &	5/16 &	5/16 &	5 1/2	15/64
2025	1/2 & 1 19/32	1/4 & 5/16	5/16 &	5/16 &	5 1/2	15/64
2726	1/2 & 5/8	1/4 &	5/16 & 7/16	5/16 & 7/16	6 1/2	9/32
2026	1/2 & 11/16	1/4 & 3/8	5/16 &	5/16 &	6 1/2	9/32
2727	9/16 & 5/8	.....	3/8 & 7/16	3/8 & 7/16	6 1/2	9/32
2027	1 19/32 & 11/16	5/16 & 3/8	.....	.....	6 1/2	9/32
2027C	9/16 & 11/16	8/16 & 3/8	3/8 &	3/8 &	6 1/2	9/32
2028	1 19/32 & 2 5/32	5/16 & 7/16	3/8 & 1/2	3/8 & 1/2	7 1/2	5/16
2728	9/16 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	7 1/2	5/16
2028S	5/8 & 2 5/32	8/16 & 7/16	7/16 & 1/2	7/16 & 1/2	7 1/2	5/16
2729	5/8 & 3/4	.....	7/16 & 1/2	7/16 & 1/2	7 1/2	5/16
2029	1 11/16 & 2 5/32	3/8 & 7/16	7/16 & 9/16	7/16 & 9/16	7 1/2	5/16
2730	5/8 & 1 13/16	.....	7/16 & 9/16	7/16 & 9/16	7 1/2	5/16
2030	1 11/16 & 7/8	3/8 & 1/2	8/16 & 5/8	8/16 & 5/8	7 1/2	5/16
2731	3/4 & 1 13/16	.....	1/2 & 9/16	1/2 & 9/16	9	3/8
2731A	3/4 & 7/8	8/16 & 1/2	1/2 & 5/8	1/2 & 5/8	9	3/8
2031	2 5/32 & 7/8	7/16 & 1/2	5/8 & 5/8	5/8 & 5/8	9	3/8
2731B	1 13/16 & 7/8	8/16 & 1/2	9/16 & 5/8	9/16 & 5/8	9	3/8
2732	1 13/16 & 1	.....	9/16 & 3/4	.....	9	3/8
2032	2 5/32 & 3 1/32	7/16 & 9/16	1/2 & 3/4	1/2 & 11/16	9	3/8
2732A	3/4 & 1	.....	1/2 & 3/4	1/2 & 11/16	9	3/8
2033A	7/8 & 15/16	1/2 &	5/8 &	9/16 & 5/8	9	3/8
2033	7/8 & 3 1/32	1/2 & 9/16	5/8 &	9/16 &	9	3/8

### No. 40 Right-Angle Wrench Set

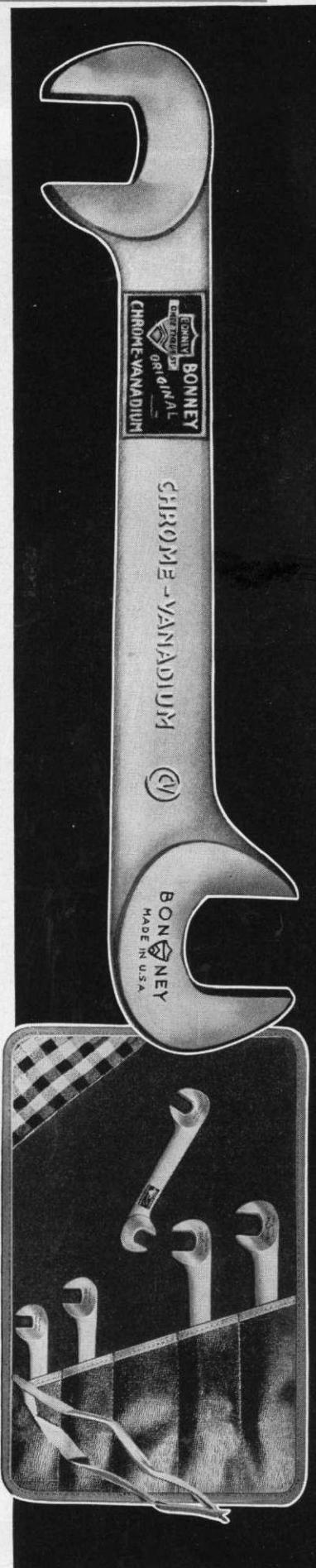
This set, composed of wrenches drop-forged of 'CV' Chrome-Vanadium Steel, contains one each of the following numbers:

Nos. 2723  
2025

No. 2027C

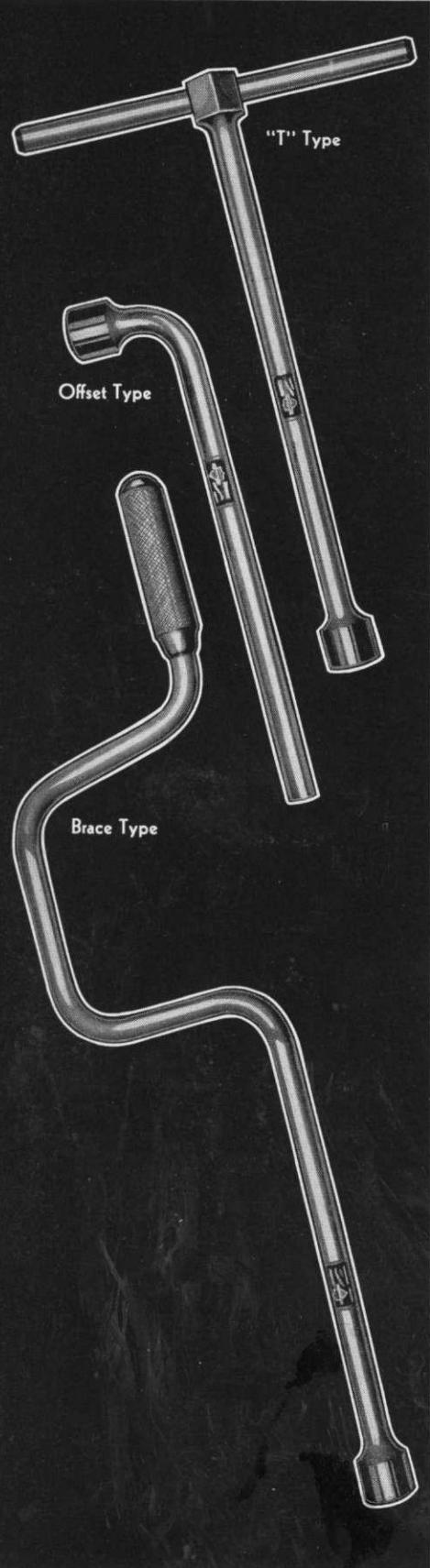
Nos. 2028S  
2731A

There are no duplicate openings, and they will fit U. S. Standard nuts, S. A. E. nuts and hexagon cap screws, as shown in the table.





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## 'CV' Chrome-Vanadium SOCKET WRENCHES

BONNEY Solid Socket Wrenches are forged from 'CV' Chrome-Vanadium Steel. The socket and shank are forged in one piece. The sockets are designed so as to provide a reasonable depth, while the outside diameter of the socket is held down as far as practical to permit of the greatest possible clearance in operation. They are chrome plated, with polished heads on the sockets.

### 'T' Type

Wrench No.	Hexagon Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Extreme Length
2201	7/16	.....	1/4	1/4	12
2202	1/2	1/4	5/16	5/16	12
2203	9/16	.....	3/8	3/8	12
2204	19/32	5/16	.....	.....	12
2205	5/8	.....	7/16	7/16	12
2206	11/16	3/8	.....	.....	12
2207	3/4	.....	1/2	1/2	12
2208	25/32	7/16	.....	.....	12
2209	13/16	.....	9/16	9/16	12
2210	7/8	1/2	5/8	9/16	12

### Offset Type

Wrench No.	Hexagon Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Length	Handle Offset
2101	7/16	.....	1/4	1/4	8	2
2102	1/2	1/4	5/16	5/16	8	2
2103	9/16	.....	3/8	3/8	8	2
2104	19/32	5/16	.....	.....	10	2
2105	5/8	.....	7/16	7/16	10	2
2106	11/16	3/8	.....	.....	10	2
2107	3/4	.....	1/2	1/2	10	2
2108	25/32	7/16	.....	.....	10	2 1/4
2109	13/16	.....	9/16	9/16	10	2 1/4
2110	7/8	1/2	5/8	9/16	10	2 1/4
2270S	15/16	.....	.....	5/8	9 1/8	2 3/16
2270A	31/32	9/16	.....	11/16	9 1/8	2 3/16
2270D	1	3/4	.....	.....	9 1/8	2 3/16
2271A	11/16	5/8	.....	3/4	10	2 3/8
2271D	11/8	.....	7/8	.....	10	2 3/8
2273A	1 1/4	3/4	1	7/8	11 5/8	2 3/4
2274D	1 1/8	.....	1 1/8	.....	12 5/8	2 7/8
2275A	17/16	7/8	.....	1	13 1/4	3 1/8
2275D	1 1/2	1 1/4	.....	.....	13 1/4	3 1/8
2276A	1 5/8	1	1 3/8	1 1/8	14 7/8	3 1/2
2277A	1 13/16	1 1/8	.....	1 1/4	16 1/2	3 7/8

### Brace Type 20 Inches - 2400 Series

Wrench No.	Hexagon Opening	U. S. S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Length	Length of Shank
2401	7/16	.....	1/4	1/4	20	10
2402	1/2	1/4	5/16	5/16	20	10
2403	9/16	.....	3/8	3/8	20	10
2404	19/32	5/16	.....	.....	20	10
2405	5/8	.....	7/16	7/16	20	10
2406	11/16	3/8	.....	.....	20	10
2407	3/4	.....	1/2	1/2	20	10
2408	25/32	7/16	.....	.....	20	10
2409	13/16	.....	9/16	9/16	20	10
2410	7/8	1/2	5/8	9/16	20	10

### Brace Type 30 Inches - 2500 Series

2503	9/16	.....	3/8	3/8	30	20
2505	5/8	.....	7/16	7/16	30	20



# CHART of WRENCH and SOCKET OPENINGS and SIZES of BOLTS and NUTS WHICH THEY FIT

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HEXAGON and DOUBLE HEXAGON  
(Dimensions given below are the outside diameters of threads in inches.)

U.S.S.		S.A.E. Std. Screws & Nuts	American Std.		WRENCH OPENINGS IN INCHES	SQUARE and DOUBLE SQUARE (Dimensions given below are the outside diameters of threads in inches.)		
Nuts	Cap Screw		Nuts	Cap Screws		Nuts	Cap Screw	U.S.S. or Amer. Std. Set Screws
			0 & 1		5/32			0 & 1
			2 & 3		3/16			2 & 3
					7/32			
					1/4			4
					5/16			5 & 6
					11/32			8
					3/8			10
					7/16			12 & 1/4
					15/32			
					1/2			
					17/32			
					9/16			
					19/32			
					5/8			
					21/32			
					11/16			
					23/32			
					3/4			
					25/32			
					13/16			
					27/32			
					7/8			
					1/2			
					3/4			
					7/8			
					9/16			
					15/16			
					31/32			
					1			
					1 1/16			
					5/8			
					11/8			
					13/16			
					11/4			
					15/16			
					13/8			
					17/16			
					7/8			
					1 1/2			
					19/16			
					15/8			
					11 1/16			
					13/4			
					11 3/16			
					17/8			
					11 5/16			
					2			
					2 1/16			
					2 1/8			
					2 3/16			
					2 1/4			
					2 5/16			
					2 3/8			
					2 7/16			
					2 1/2			
					2 9/16			
					2 5/8			
					2 11/16			
					2 3/4			
					1 3/4			



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## CONSTRUCTION WRENCHES

DROP-FORGED of Bonney 'CV' Chrome-Vanadium Steel these open end construction wrenches have openings at 15° angle. Handles are long and tapered for ease in lining up bolt holes. They are carefully heat treated and fully chrome plated.



15° ANGLE

Wrench No.	Nominal Opening	U.S.S. Std. Nut; Size Bolt	S.A.E. Std. Nut & Cap Screw	Amer. Std. Reg. Nut; Size Bolt	Extreme Length
1203A	5/8	.....	7/16	3/8	12
1203	11/16	3/8	.....	1/2	12
1205A	13/16	.....	9/16	9/16	14 1/2
1205	7/8	1/2	.....	1/2	14 1/2
1206B	1	.....	11/16	5/8	14 1/2
1207	11/16	5/8	3/4	.....	17
1207A	11/8	.....	3/4	.....	17
1208	11/4	3/4	7/8	7/8	19
1208A	15/16	.....	7/8	7/8	19
1209	17/16	7/8	1	.....	21
1209A	11/2	.....	1	.....	21
1210	15/8	1	11/8	.....	23
1211	113/16	11/8	11/4	.....	25
1212	2	11/4	13/8	.....	25

## STRUCTURAL BOX WRENCHES



DOUBLE HEXAGON OPENING

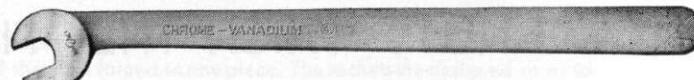
DROP-FORGED of Bonaloy Steel, these structural box wrenches are designed with maximum clearance at the offset, allowing the double hexagon opening a full grip on the nut at all times. Handles are long and tapered for ease in lining up bolt holes.

Bonney Structural Box Wrenches have definite safety features that recommend their use wherever an open end structural wrench is not required.

They are carefully heat treated, have plated finish and polished heads.

No.	Nominal Opening	For U.S. Std. Nut; Size Bolt	Extreme Length Approx.	Approx. Weight each, Pounds
0907	11/16	5/8	15	1 1/2
0908	11/4	3/4	17	2
0909	15/16	7/8	20 1/2	3
0910	15/8	1	21 1/2	3 1/2
0911	113/16	11/8	23	4
0912	2	11/4	24	5
0913	23/16	13/8	25 1/2	6 1/2
0914	23/8	11/2	27	7
0915	29/16	15/8	29	9

## ANGLE HEAD SERVICE WRENCHES



CHROME-VANADIUM



CHROME-VANADIUM

This line of Wrenches is especially suitable for production and service work. They are designed to take all the leverage that the extremely long handles will allow. They may also be used to make tappet adjustments on certain makes of cars.

Wrench No.	Opening Milled	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw and Nut	Extreme Length	Thickness of Head
Short Hdle.	1401	3/8	.....	6" L ONG	6	7/32
	1401A	7/16	7/4	1/4	6	7/32
	1402	1/2	1/4	5/16	6	7/32
	1403	11/32	.....	3/8	6	7/32
	1403A	19/32	5/16	.....	6	7/32
Med. Hdle.	1404A	9/16	.....	9" L ONG	9	9/32
	1404	5/8	.....	9/16	9	9/32
	1405	11/16	3/8	.....	9	9/32
	1406	3/4	.....	1/2	9	9/32
Long Hdle.	1501	3/8	.....	12" L ONG	12	7/32
	1501A	7/16	7/4	1/4	12	7/32
	1502	1/2	1/4	5/16	12	7/32
	1502A	11/32	.....	3/8	12	7/32
	1503	9/16	.....	3/8	12	7/32
	1503A	19/32	5/16	.....	12	7/32
	1504	5/8	.....	7/16	12	9/32
	1505	11/16	3/8	.....	12	9/32
	1506	3/4	.....	1/2	12	11/32
	1506A	25/32	7/16	.....	12	11/32
	1507	13/16	.....	9/16	12	11/32
	1507A	7/8	1/2	.....	12	11/32
	1508	15/16	.....	5/8	12	11/32
	1508A	31/32	9/16	.....	12	11/32
	1509	1	.....	3/4	11/16	11/32
	1509A	11/16	5/8	.....	12	11/32

## STRUCTURAL WRENCHES



Bonney Structural Wrenches are drop forged of Bonney 'CV' Chrome-Vanadium Steel, carefully heat treated their entire length and heavily chrome plated to resist rust. Openings are straight, but heads are offset to provide maximum clearance. Handles are long, thin and tapered to provide ease in lining up bolt holes.

### Straight Opening and Offset Head

Wrench No.	Nominal Opening	For U.S. Std. Nut; Size Bolt	For Amer. Std. Reg. Nut; Size Bolt	Extreme Length	Thickness Head	Handle Offset	
						at Head	at End
1903A	5/8	.....	3/8	12	7/16	3/4	11 1/16
1903	23/42	3/8	.....	12	7/16	3/4	11 1/16
1905A	13/16	.....	1/2	14 1/2	17/32	7/8	17/8
1905	29/32	1/2	.....	14 1/2	17/32	7/8	17/8
1906	1	9/16	5/8	14 1/2	17/32	7/8	17/8
1907	17/64	5/8	.....	17	5/8	1	23/8
1907A	11/8	.....	3/4	17	5/8	1	23/8
1908	11 1/64	3/4	.....	19	11/16	1 1/8	23/4
1908A	15/16	.....	7/8	19	11/16	1 1/8	23/4
1909	11/2	7/8	1	21	3/4	1 1/4	31/16
1910	11 1/16	1	1 1/8	23	13/16	1 1/4	33/8
1911	17/8	11/8	1 1/4	25	7/8	15/16	31 1/16
1912	21/16	11/4	.....	25	7/8	15/8	31 1/16



## SINGLE HEAD ENGINEERS' WRENCHES



15° Angle

BONNEY Single Head Engineers' Wrenches are drop forged of Bonney 'CV' Chrome-Vanadium Steel, full chrome plated and with polished heads. Openings are at 15° angle for efficiency. Handles are long and thin to assure a firm, comfortable grip.

Wrench No.	Openings Milled	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Standard Screw and Nut	Extreme Length	Thickness of Head
1000	5/16	1/8	1/8	.....	3 1/2	7/32
1700	3/8	3/16	3/16	.....	4	7/32
1000A	1 1/32	.....	.....	.....	4	7/32
1701	7/16	.....	1/4	1/4	4 5/8	5/16
1001	1/2	.....	5/16	5/16	4 5/8	5/16
1702	9/16	.....	3/8	3/8	5 1/2	3/8
1002	1 1/32	.....	5/16	.....	5 1/2	3/8
1703	5/8	.....	7/16	7/16	6 3/8	7/16
1003	1 1/16	3/8	.....	.....	6 3/8	7/16
1704	3/4	.....	1/2	1/2	7 1/4	7/16
1004	2 5/32	7/16	.....	.....	7 1/4	7/16
1705	13/16	.....	9/16	9/16	8 1/8	1/2
1005	7/8	1/2	5/8	5/8	8 1/8	1/2
1006	31/32	9/16	.....	.....	9 1/4	9/16
1706	1	.....	3/4	1 1/16	9 1/4	9/16
1007	11/16	5/8	.....	.....	10 1/2	5/8
1707	1 1/8	.....	7/8	.....	10 1/2	5/8
1008	1 1/4	3/4	1	7/8	12	3/4
1708A	1 3/8	.....	1 1/8	.....	12	3/4
1009	17/16	7/8	.....	1	13 1/2	7/8
1709	1 1/2	.....	1 1/4	.....	13 1/2	7/8
1010	15/16	1	1 1/8	1 1/8	15	7/8
1011	1 1/16	1 1/8	.....	1 1/4	16 1/2	1 5/16
1012	2	1 1/4	.....	1 3/8	18 1/4	1

## DOUBLE-HEAD SET SCREW WRENCHES



22 1/2° Angle

Bonney Double Head Set Screw Wrenches are drop forged of Bonney 'CV' Chrome-Vanadium Steel, heavily chrome plated and with polished heads. They have different size openings in each end placed at 22 1/2° angle.

Wrench No.	Milled Openings for Set Screws	Extreme Length	Thickness Head
1523	3/16 & 1/4	3 1/2	7/32
1524	3/16 & 5/16	4 1/4	9/32
1525	1/4 & 5/16	4 1/4	9/32
1526	1/4 & 3/8	5	1 1/32
1527	5/16 & 3/8	5	1 1/32
1528	5/16 & 7/16	5 3/4	3/8
1529	3/8 & 7/16	5 3/4	3/8
1530	3/8 & 1/2	6 5/8	7/16
1531	7/16 & 1/2	6 5/8	7/16
1532	7/16 & 9/16	7 1/2	1/2
1533	7/16 & 9/16	7 1/2	1/2
1534	1/2 & 5/8	8 1/2	9/16
1535	9/16 & 5/8	8 1/2	9/16
1536	9/16 & 3/4	9 3/4	5/8
1537	5/8 & 3/4	9 3/4	5/8
1538	5/8 & 7/8	11	11/16
1539	3/4 & 7/8	11	11/16
1540	3/4 & 1	12 1/2	3/4
1541	7/8 & 1	12 1/2	3/4

## SINGLE HEAD SERVICE WRENCHES



Designed particularly for assembling and service work on pinion shaft bearing adjusting nuts. The heads are thin, sufficiently strong to stand the leverage that the 12 1/4 inch handle produces without breaking or spreading.

Wrench No.	Opening Milled	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Extreme Length	Thickness of Head
1932	1	.....	.....	3/4	1 1/16	12 1/4
1934	1 1/16	5/8	.....	3/4	12 1/4	1/4
1936	1 1/8	.....	.....	1/8	.....	1/4
1940	1 1/4	3/4	.....	7/8	.....	1/4
1944	1 3/8	.....	1 1/8	.....	12 1/4	1/4
1946	17/16	7/8	.....	1	12 1/4	9/32
1948	1 1/2	.....	.....	1 1/4	12 1/4	9/32
1950	19/16	1 1/8	1	1 1/8	12 1/4	9/32
1952	15/8	1 1/8	1 1/8	1 1/8	12 1/4	9/32
1956	13/4	1 1/2	.....	1 1/2	12 1/4	5/16
1958	11 3/16	1 1/8	1 1/4	1 1/4	12 1/4	5/16
1960	17/8	1 1/8	1 1/8	1 1/8	12 1/4	5/16
1964	2	1 1/4	.....	1 3/8	12 1/4	5/16
1966	2 1/16	.....	.....	1 1/2	12 1/4	5/16
1970	2 3/16	1 1/8	1 1/2	1 1/2	12 1/4	5/16

## SHORT 'S' WRENCHES



22 1/2° ANGLE

Bonney Short 'S' Wrenches are drop forged of 'CV' Chrome-Vanadium Steel, carefully heat treated, fully chrome plated and with polished heads. Openings are at 22 1/2° angles, and different size openings are in each end.

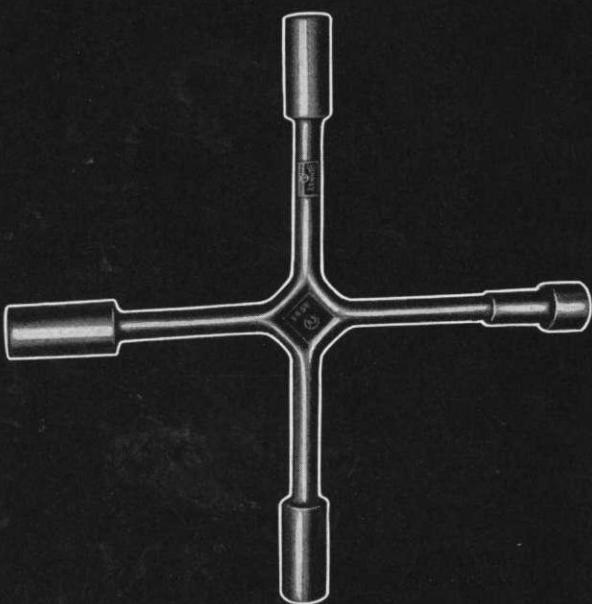
Wrench No.	Openings Milled	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Standard Screw and Nut	Extreme Length	Thickness of Head
1070	3/8 & 7/16	.....	.....	3/16 & 1/4	& 1/4	1/4
1071	1/2 & 9/16	1/4 &	.....	5/16 & 3/8	5/16 & 3/8	5/16
1072	3/4 & 13/16	.....	.....	1/2 & 9/16	1/2 &	3/8
1073	7/8 & 1	1/2 &	5/8 & 3/4	9/16 & 11/16	7	7/16



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Money Can Buy*



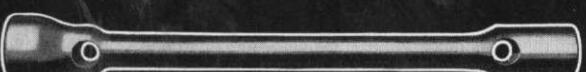
No. 2420 Series



Cross Rim Wrench



Nos. 7944 and 7944A



Nos. 7940-7941



No. 7942

## RIM WRENCHES

### No. 2420 Series

THE Bonney Rim Wrenches listed in the table below are all made in one piece from selected Steel, and have hexagon openings. They have plated finish and will take care of practically all sizes of rim nuts.

No.	Opening
2420	5/8"
2422	11/16"
2424	3/4"
2426	13/16"
2428	7/8"

### No. 2553 Cross Rim Wrench

A quality tool needed by every garage and service station. Made of 'CV' Chrome-Vanadium Steel, it is chrome plated, with polished heads. Has 5/8", 3/4", 13/16" and 7/8" openings. A "four-in-one" tool to meet practically every need for a rim wrench.

### Truck Rim Wrenches

Nos. 7940 and 7941 are designed especially for use on Ford truck rim nuts. No. 7944 is for rim nuts on practically all other makes of trucks, and the 7942 is a handle and pry bar for use with the wrenches mentioned above. All have plated finish and are the usual Bonney quality in every way.

No.	Openings	Length
7940	13/16" square & 1 1/8" hexagon	16 7/8"
7941	13/16" square & 1 1/2" hexagon	16 7/8"
7944	7/8" hexagon & 1 1/16" hexagon	14 7/8"
7944A	7/8" hexagon & 1 3/16" hexagon	14 7/8"
7942	Handle and pry bar	20"

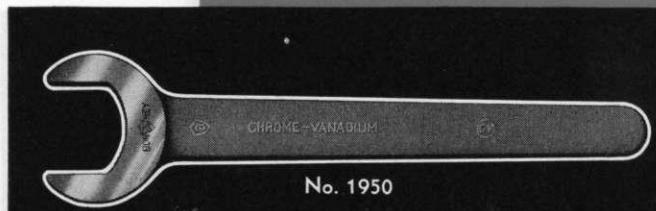
# SPECIAL WRENCHES FOR CHEVROLETS



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## No. 1950 for 1939 Steering Worm Adjustment

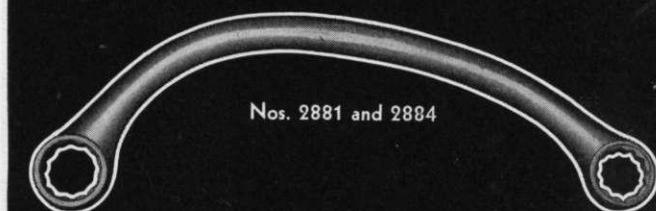
A wrench drop-forged of Bonney 'CV' Chrome-Vanadium Steel and designed especially for the steering worm adjustment on the 1939 Chevrolet. Fully chrome plated, with polished head. Has  $1\frac{9}{16}$ " opening and is  $1\frac{1}{2}$ " long.



No. 1950

## No. 2881 Starter and Manifold Wrench

Starter and manifold work on Chevrolet and other cars is simplified by this wrench. The openings are  $\frac{9}{16}$  and  $\frac{5}{8}$  inch double-hexagon. Length  $7\frac{3}{4}$  inches. Made of 'CV' Chrome-Vanadium Steel, chrome plated.



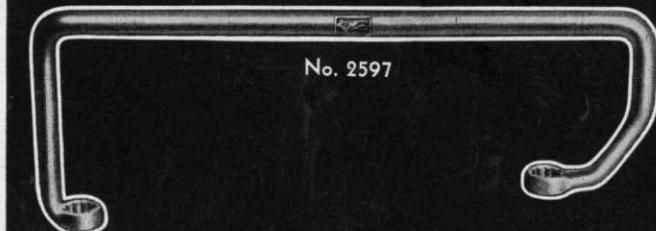
Nos. 2881 and 2884



No. 2540

## No. 2884 Starter Wrench

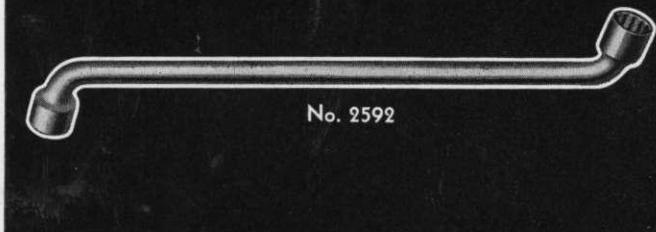
Designed especially for adjustments on 1937 and 1938 Chevrolet starters. Made of 'CV' Chrome-Vanadium Steel, chrome plated, with polished heads. Has  $\frac{9}{16}$ " and  $\frac{3}{4}$ " double hexagon openings. Length  $7\frac{3}{4}$  inches.



No. 2597

## No. 2540 Main Bearing Wrench

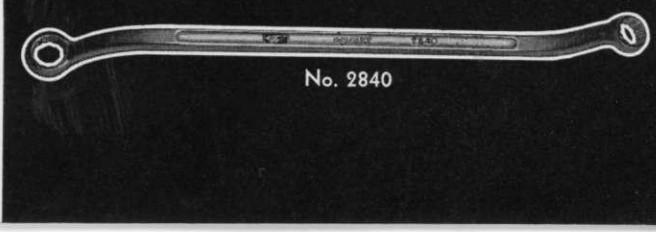
For adjusting Chevrolet "4" main bearings. Overall length 13 inches. Has  $1\frac{3}{16}$  inch and  $\frac{7}{8}$  inch double hexagon openings.



No. 2592

## No. 2597 Cylinder Head Wrench

Designed especially for cylinder head stud nuts on 1937 model Chevrolet. Has  $\frac{3}{4}$  inch double hexagon opening in each end. Made of 'CV' Chrome-Vanadium Steel, chrome plated. Overall length  $16\frac{5}{8}$ ".



No. 2840

## No. 2592 Main Bearing Wrench

Especially designed for work on Chevrolet Main Bearings. Has  $1\frac{11}{16}$ " and  $\frac{3}{4}$ " double hexagon openings. Overall length 16 inches.

## No. 2840 Main Bearing Wrench

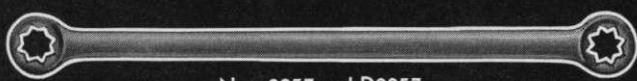
Used for adjusting Chevrolet "6" main bearings. Has  $\frac{5}{8}$  inch and  $\frac{3}{4}$  inch double hexagon openings. Overall length  $13\frac{1}{2}$  inches.



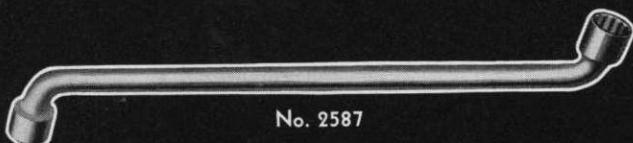
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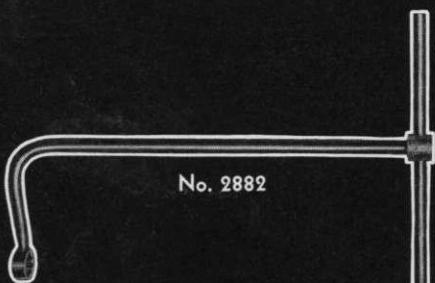
No. 2626



Nos. 2857 and D2857



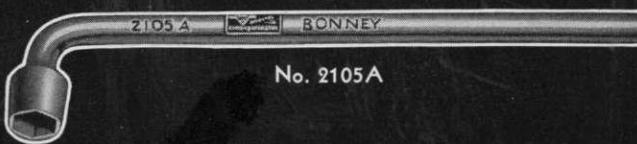
No. 2587



No. 2882



No. F18



No. 2105A

## SPECIAL WRENCHES FOR FORDS

### No. 2626 Drain Plug Wrench For '39

A drop-forged wrench of BONALOY Steel designed especially for removing and replacing the drain plug on 1939 Ford standard and deluxe and Mercury cars. It is chrome plated, has 2" double hexagon opening. Head is offset at 20°. Length overall 10 $\frac{3}{4}$  inches.

### Nos. 2857 and D2857 Brake Wrenches

Special wrenches for work on Ford brakes. They have  $\frac{7}{16}$  inch and  $\frac{1}{2}$  inch openings. No. 2857 has square openings. No. D2857 double square openings. Overall length 10 $\frac{3}{4}$  inches.

### No. 2587 Main Bearing Wrench

Work on Ford main bearings is speeded with this wrench. Has  $\frac{9}{16}$  inch double square and  $\frac{3}{4}$  inch double hexagon openings. Overall length 16 inches.

### No. 2882 Shock Absorber Wrench

For use in removing and replacing filler plug on V8 Ford shock absorbers. Has  $\frac{7}{16}$  inch double square opening. Forged of 'CV' Chrome-Vanadium Steel.

### No. F18 Socket

A special socket of 'CV' Chrome-Vanadium Steel for Ford V8 connecting rod bearing cap nuts. Made with thin nose. Has  $\frac{9}{16}$  inch hexagon opening. Is for  $\frac{1}{2}$  inch square drive. Not Guaranteed.

### No. 2105A Connecting Rod Bearing Wrench

For making adjustments on Ford Model "A" connecting rods. Overall length of wrench, 10 inches. Equipped with  $2\frac{1}{32}$  inch hexagon opening.

## SPECIAL WRENCHES FOR FORDS

### No. 2612 Brake Wrench for Ford and Lincoln

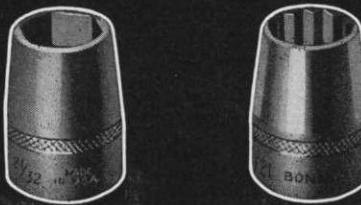
A drop forged wrench with slotted, double hexagon openings for removal and replacement of flare nuts on Ford and Lincoln Zephyr hydraulic brake lines. Has panelled handle, chrome plated finish. Openings  $\frac{3}{8}$ " and  $\frac{1}{2}$ ".  $4\frac{3}{4}$ " long.



No. 2612

### Nos. D21 and 4021 Sockets

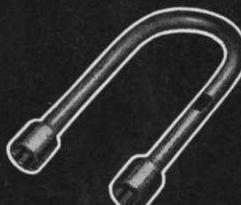
These two sockets are used for adjusting Ford "A" and "AA" connecting rod bearing cap nuts. No. D21 has  $2\frac{1}{32}$  inch double hexagon opening. No. 4021 has  $2\frac{1}{32}$  inch single hexagon opening. Both are for  $\frac{1}{2}$  inch square drive.



Nos. D21 and 4021

### No. 2588 Main Bearing Wrench

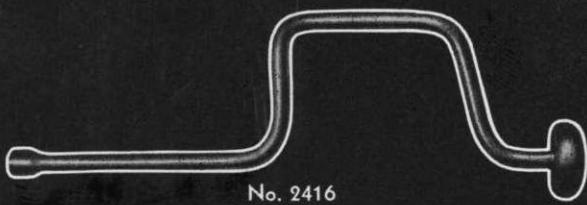
The adjustment of main bearing caps on the Ford V8 is greatly speeded with this tool. It holds the bearing bolts while the cap nuts are tightened or adjusted. The openings are  $\frac{9}{16}$ " double square. No. 2587 is the ideal companion wrench for this one.



No. 2588

### No. 2416 Oil Pan Wrench

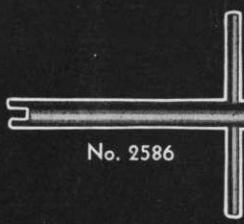
Used on Model "A", "V8" and "B4" Ford Oil Pans. Has  $\frac{1}{2}$  inch hexagon opening. Length 17 inches overall. A very handy speeder for this job.



No. 2416

### No. 2586 Carburetor Wrench

No. 2586 is a special tool for adjusting Ford V8 carburetor jets. It is an accurate tool to make precision adjustments. Made of 'CV' Chrome-Vanadium Steel.



No. 2586



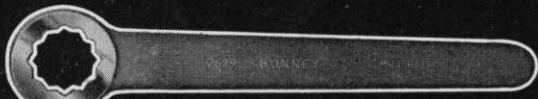
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No. 3118A



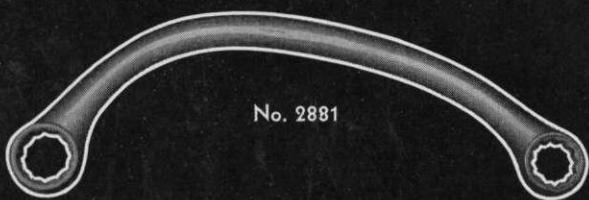
Nos. 2612 and 2618



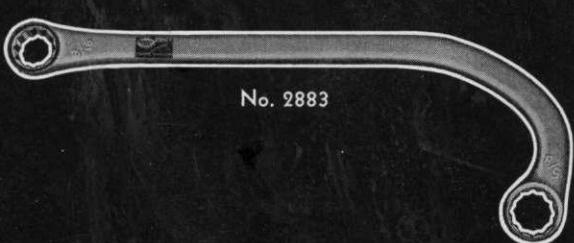
No. 2629



No. 2875



No. 2881



No. 2883

## MISCELLANEOUS SPECIAL WRENCHES

### No. 3118A Carburetor Wrench

A TuType wrench combining an open end and box wrench in one tool that will be found useful for general carburetor work. Has  $1\frac{1}{2}$ " double hexagon and  $\frac{9}{16}$ " open end opening. Made of ZENEL Steel, chrome plated, with polished heads. Length  $5\frac{1}{8}$  inches.

### Open End Box Wrenches For Copper Tube Fittings

Drop forged of Bonaloy Steel, carefully heat treated and heavily chrome plated, these wrenches have slotted, double hexagon openings for removal and replacement of copper tube flare nuts and fittings. Heads are offset at  $15^\circ$  angle and openings are at  $15^\circ$  for efficiency. Handles are panelled and different size openings are in each end.

No.	Openings	Length
2612	$\frac{3}{8}$ " & $\frac{1}{2}$ "	$4\frac{3}{4}$ "
2618	$\frac{7}{16}$ " & $\frac{9}{16}$ "	5"

### No. 2629 Brake Wrench for Chrysler Built Cars

A drop forged, single head box wrench with  $1\frac{1}{16}$ " double hexagon opening for brake use on Chrysler, Dodge, DeSoto and Plymouth cars. Has fully chrome plated finish.

### No. 2875 Battery Wrench

Needed by every battery and service man. Made of BONALOY Steel and is exceptionally strong. Designed especially for work on battery terminal nuts. Has  $\frac{9}{16}$  inch and  $\frac{5}{8}$  inch double hexagon openings. Length 6 inches.

### No. 2881 Manifold Wrench

Designed for manifold work on a large variety of cars. Made of BONALOY Steel, chrome plated. Double hexagon openings  $\frac{9}{16}$ " and  $\frac{5}{8}$ ". Length  $7\frac{3}{4}$ " inches.

### No. 2883 Starter Wrench For Chrysler

A special wrench of BONALOY Steel designed especially for use on the starter nuts of late model Chrysler cars. Has  $\frac{9}{16}$  inch and  $\frac{5}{8}$  inch double hexagon openings. Overall length 9 inches. Has chrome plated finish with heads buffed to a high, permanent lustre.

# MISCELLANEOUS SPECIAL WRENCHES

## No. 2626 Drain Plug Wrench For 1939 Mercury

A drop-forged wrench of BONALOY Steel designed especially for removing and replacing the drain plug on 1939 Mercury and Ford standard and deluxe cars. It is chrome plated, has 2" double hexagon opening. Head is offset at 20°. Length overall 10 3/4 inches.

## Box Wrench Attachments For Torque-Indicating Wrenches

Designed especially for drawing up cylinder head stud nuts with torque-indicating wrenches having 1/2" square drive, these box wrench attachments are made of BONALOY Steel, with plated finish. They have double hexagon box wrench openings and can also be used with all standard 1/2" square drive socket handles and attachments.

No.	Double Hexagon Opening and Sweep
2613	3/4" close sweep
2614	3/4" wide sweep
2615A	11/16" close sweep
2615	5/8" close sweep
2616	5/8" wide sweep

## Water Pump Packing Nut Wrenches

Many cars on the road today still require water pump packing nut adjustments, and the only proper way to make this adjustment is with Bonney water pump packing nut wrenches. The nut is usually of brass and very thin, and should only be tightened with a wrench and never with a drive punch and hammer. Wrenches to do this work must be very thin.

Bonney 'CV' Chrome Vanadium Water Pump Packing Nut Wrenches are designed especially for this adjustment. Their use for other classes of work or with added leverage is not recommended.

Wrench No.	Opening Milled	Length	Thickness Of Head
1224	3/4	7	1/4
1224A	1 1/8	7	1/4
1226	1 3/16	7	1/4
1228	7/8	7	1/4
1230	1 5/16	7	1/4
1232	1	7	1/4
1239A	1 1/32	7	1/4
1234	1 1/16	7	1/4
1236	1 1/8	7	1/4
1236S	1 5/16	7	1/4
1236X	1 5/16	7	7/32
1238	1 3/16	7	1/4
1240	1 1/4	7	1/4
1241	1 9/32	7	1/4
1242	1 5/16	7 3/4	9/32
1244	1 3/8	7 3/4	9/32
1246	1 7/16	7 3/4	9/32
1248	1 1/2	7 3/4	9/32
1250	1 9/16	7 3/4	9/32
1252	1 5/8	7 3/4	9/32
1256	1 3/4	8 1/2	5/16
1258	1 13/16	8 1/2	5/16
1260	1 7/8	8 1/2	5/16
1262	1 15/16	8 1/2	5/16
1264	2	8 1/2	5/16
1264S	2 9/16	8 1/2	5/16
1266	2 1/16	8 1/2	5/16
1268	2 1/8	8 1/2	5/16
1272	2 1/4	8 1/2	5/16
1276	2 3/8	8 1/2	5/16
1278	2 1/2	8 1/2	5/16

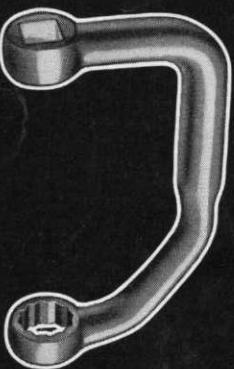
No. 4568—This is a 1/4" set screw wrench to facilitate Chrysler Castor Adjustment.



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No. 2626



Nos. 2614 and 2616



Nos. 2613, 2615

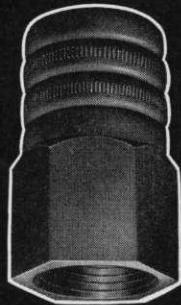
and 2615A



Water Pump Packing Nut Wrenches



*The Finest that Money Can Buy*



"Knock-Off" Wheel Pullers

## "KNOCK-OFF" WHEEL PULLERS

These "knock-off" wheel pullers are inexpensive tools that will be found useful on practically all makes of cars and trucks. They are made of special analysis steel, accurately machined and heat-treated, but due to the service to which they are put, they are not guaranteed.

No. and Size	No. and Size	No. and Size
5/8-18	1 3/16-16	1-14
3/4-16	7/8-14	1 1/8-12
3/4-20	7/8-18	1 1/4-12

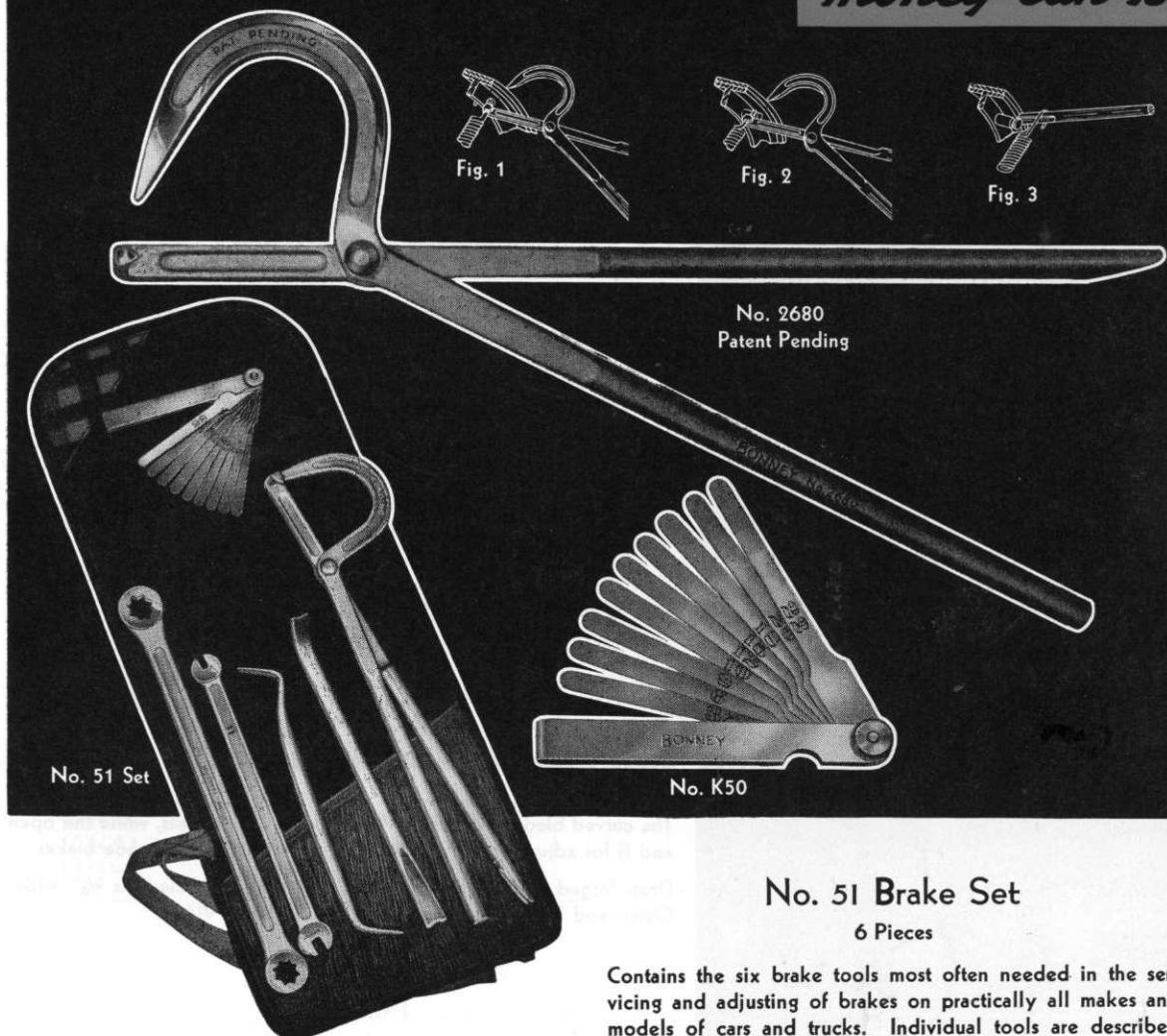
### Chart for "Knock-Off" Wheel Pullers

Make of Car	Models	Wheel Puller Size	Make of Car	Models	Wheel Puller Size	Make of Car	Models	Wheel Puller Size
AUBURN	1927 to 1931 6-66A, 76, 6-80, 6-85, 88, 8-90, 895	7/8-14	TERRAPLANE	6, 8, 1932 to '34	3/4-20	MACK TRUCKS	1916 to '30, Models 8AC, AC, AP	1 1/4-12
	All others	1-14		1930 to '32	7/8-18		1932-'33; Models 1060, 1120, 1070, 1130	1-14
AUSTIN	All Models	5/8-18		1924 to '29 six	5/8-18	NASH	1926 to '29; Light & Std. Six	3/4-16
	'36 90, all Std. Series '26 to '30 1930 to 1935, Series 50 and 60	1-14		1929 to '30, 1 ton	1-14		All others	7/8-14
BUICK	Master Series 1916 to '30; 1930 to '35 Series 80 and 90	1 1/8-12	FEDERAL TRUCKS	1926 to '29, 1 ton F6, FX2, Scout, FW, 2FW, 2F6	7/8-14	OLDSMOBILE	1924 to '37	1-14
	1936 V8-60	1-14		All Models	5/8-18		1932 to '37	7/8-14
CADILLAC	All others	1 1/8-12		1930 to '33, 1 1/2 ton	1 1/4-12		1923 to '32	1-14
	1923 to '32 (Early BA)	3/4-16		1928-'29, 1 1/2 ton	7/8-14		1929 to '37	3/4-16
CHEVROLET TRUCK	1931 to '35 Models LT, LS, M, N, O, F, Q, (1 1/2 ton)	1 1/4-12	G. M. C. TRUCKS	1919 to '27, 1 ton	7/8-14	PONTIAC	'32 and later	7/8-14
	1925 to '31 Commercial and early '32 BB (1/2 ton)	3/4-16		1923-'33—1 1/2 ton	1 1/4-12		1926 to '29	3/4-16
CHRYSLER	1932 late BB (1/2 ton)	1 3/16-16		1927 to '33—T20, T21, T11, T15, T17	7/8-14		All models	1-14
	1930 LR (1 1/2 ton)	1 1/8-12		1927—'28—T19	1-14		All 1 1/2 ton, 1928 to '31 1 ton	1-14
DE SOTO	1922 to '29— 1 Ton & 1 1/2 ton	1-14		1919—'24—3/4-1 ton	1 1/8-12	REO	1924 to '26, "F", 1927-'31, 1 1/2 ton	1 1/8-12
	1926 to '37, Models 50, 52, CV, CM, 66, C16; 1930-'31 8's, C06, CA, CB, C6, C7, C8, C28, C16	3/4-16	GRAHAM	1928 to '36; Models 610, 53, 612, 646, 54, 56, 6-74, 6-80	7/8-14		All others	1 1/4-12
DODGE	All others	7/8-14		1928 to '36; Models 614, 619, 621, 629, 827, 835, 837, Custon 8, 65, 67, 68, 73, 6-90, 6-110	1-14		1930-1 1/2 ton	1 1/4-12
	All Models	3/4-16		1928 to '35; Models 615, 645, 42, 822, 834, 820, 57, 69, 75	1 1/8-12	STERLING TRUCKS	1929-DB7-1 1/2 ton	7/8-14
DODGE TRUCKS	1930 to '37 DD, DH, DL, DC, DG, DP6, DR, DS, DU, D2, D5	3/4-16	HUDSON	1934 to '37	3/4-20		Eights except '35 Model C; '33, 8-82; 1920 to '27 Big Six, Spec. Six	1-14
	All others	7/8-14		1930 to '33	7/8-18		All others	7/8-14
LA SALLE	1929 to '37, 1/2 ton	3/4-16		1921 to '30	7/8-14	STUDEBAKER TRUCK & BUSES	1927 to '33; 1/2 & 3/4 ton	7/8-14
	1924 to '30, 3/4 ton; 1927 to '29, 1/2 ton	7/8-14	INDIANA TRUCKS	1925 to '30; Models 11, 11X, 611, 60, 64, 74, 200, 300	1-14		1925 to '29; 1 & 1 1/4 ton	1-14
DODGE TRUCKS	1924 to '30, 1 ton, 1 1/4 ton	1-14		1933 to '37, 1/2 ton models	7/8-14		1928 to '32, 75 Jr., 76, 77, 88, S20, S30	1 1/4-12
	1927 to '33	1-14		1925 to '32; Models SD, SL, SL34, SL36, SF34, SF36, 15A, 15B, S, SD, S24, S26, 6 Speed Spec., AW2, A1, A2, B2, AL3, ALF3	1 1/4-12	WHITE TRUCK & BUSES	1924 to '29 Models 50A, 51	1 1/4-12
WILLYS	1926 to '31, 3/4 ton	1-14	LA SALLE	1926 to '31, 3/4 ton	1-14		1929-'30, 15B (Late) 57	1-14
	1934 to '37	1-14		1927 to '33	1 1/8-12		1933 to '37, 77	3/4-16
YELLOW TRUCK & COACH	1927 to '33	1 1/8-12		1929 to '31, 66B			1929 to '31, 66B	1-14
	All others	7/8-14		All others			All others	7/8-14



# BONNEY BRAKE TOOLS

*The Finest that  
Money Can Buy*



## No. 2680 Brake Spring Plier

DESIGNED especially for the removal and replacement of internal brake springs on cars and trucks of all types and sizes, this new brake spring plier will be found unusually efficient.

The hooked end of the plier grasps the brake spring firmly, while the "goose-neck" pointed side of the plier makes firm contact with the brake lining on the shoe and prevents any possibility of slipping.

The plier can be used equally well in the removal of springs held in place by the hole in the brake shoe (Fig. 1), or by a stud attached to the brake shoe (Fig. 2).

In replacing brake springs on brakes that have the stud fastened to the brake shoe (Fig. 3), the notched end of the plier will be found exceptionally useful.

The No. 2680 Brake Spring Plier is drop forged of Bonaloy Steel, carefully heat-treated, with full chromium plated finish. It weighs only 11 ounces. Its 12½" length provides leverage to handle the strongest springs with ease.

## No. 51 Brake Set

6 Pieces

Contains the six brake tools most often needed in the servicing and adjusting of brakes on practically all makes and models of cars and trucks. Individual tools are described on this page and pages 76 and 77.

Contents include on each:

Nos. 2566	Nos. 2561
2566A	2680
D2857	K50

packed in a handy leatherette roll.

## No. K50 Brake Adjusting Gauge

A feeler gauge designed expressly for measuring clearance between brake drum and shoe. Blades are made from finest, imported Swedish Steel, carefully heat-treated and tempered to withstand wear. Each blade is tested to insure the exact thickness etched on it.

It is equipped with a knurled thumb nut for instant release and selection of the blade desired. When tightened, it holds the blade selected in working position, while blades not needed are securely locked in the handle.

No. K50 has 9 blades, each 4" long, in the following thickness—.006; .008; .010; .012; .015; .018; .020; .022 and .032.



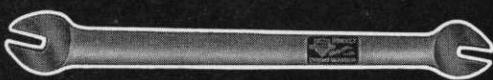
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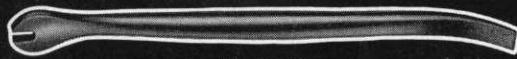
Nos. 2566 and 2566A



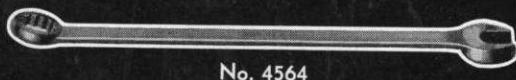
Nos. 2857 and D2857



No. 2561



No. 2599



No. 4564



Nos. 2612 and 2618

## BRAKE WRENCHES and TOOLS

### Nos. 2566 and 2566A

For making brake adjustments on cars equipped with Bendix Brakes. No. 2566 has  $\frac{1}{2}$ " width blades, is  $7\frac{1}{2}$ " overall. No. 2566A has  $\frac{1}{2}$ " width blades, is 8" overall. Full chrome plated finish.

### Nos. 2857 and D2857

For making adjustments on brakes on Ford cars and trucks. Has  $\frac{7}{16}$ " and  $\frac{1}{2}$ " openings. Drop-forged and chrome plated. Length overall  $10\frac{3}{4}$ ".

No. 2857—Square openings

No. D2857—Double Square openings

### No. 2561

Specially designed for adjustment of Bendix Brake eccentric. Has  $\frac{3}{16}$ " and  $\frac{1}{4}$ " openings. Length overall 8".

### No. 2599

Designed especially for adjustments on Bendix and other makes of hydraulic brakes.

The curved blade is for "star wheel" brake adjustments, while the open end is for adjusting the eccentric nut on all Bendix two shoe brakes.

Drop forged of Bonaloy steel with plated finish. Blade is  $\frac{3}{8}$ " wide. Open end has  $\frac{3}{16}$ " opening. Overall length  $9\frac{1}{8}$ ".

### No. 4564

For adjustments on Oldsmobile, Pontiac and Buick "40" brake anchor pins. The box end is used on rear brakes, the open end on front brakes. Both ends have  $1\frac{5}{16}$ " openings. Length  $15\frac{1}{2}$ " overall.

### Open End Box Wrenches For Copper Tube Fittings

Drop forged of Bonaloy Steel, carefully heat treated and heavily chrome plated, these wrenches have slotted, double hexagon openings for removal and replacement of copper tube flare nuts and fittings on hydraulic brake lines and gas lines. Heads are offset at  $15^{\circ}$  angle and openings are at  $15^{\circ}$  for efficiency. Handles are panelled and different size openings are in each end.

No.	Openings	Length
2612	$\frac{3}{8}$ & $\frac{1}{2}$	$4\frac{3}{4}$
2618	$\frac{7}{16}$ & $\frac{9}{16}$	5



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## BRAKE WRENCHES and TOOLS

### No. 2629 Brake Wrench for Chrysler Built Cars

A DROP FORGED, single head box wrench with  $1\frac{1}{16}$ " double hexagon opening for brake use on Chrysler, Dodge, DeSoto and Plymouth cars. Has fully chrome plated finish.

### Nos. 2526 to 2538

No.	Openings	
	$22\frac{1}{2}^\circ$ end	$60^\circ$ end
2537	$\frac{1}{2}"$	$\frac{9}{16}"$
2538	$\frac{9}{16}"$	$\frac{1}{2}"$
2526	$\frac{5}{8}"$	$\frac{5}{8}"$
2526A	$\frac{9}{16}"$	$\frac{9}{16}"$
2526B	$1\frac{1}{16}"$	$1\frac{1}{16}"$

All are  $6\frac{1}{4}"$  long, heads  $\frac{7}{32}"$  thick.

### Long Engineer's Wrenches

Designed especially for brake adjustments, spring clips, etc., these wrenches are drop-forged of 'CV' Chrome-Vanadium Steel, fully chrome plated and with polished heads.

No.	Openings	Thickness of Heads	Length
1731AL	$\frac{3}{4}"$ & $\frac{7}{8}"$	$\frac{3}{8}"$	15"
1034AL	$\frac{15}{16}"$ & $1\frac{1}{16}"$	$1\frac{7}{32}"$	16"
1735L	$1"$ & $1\frac{1}{8}"$	$1\frac{7}{32}"$	16"

### No. 2589

A special tool which is unusually useful in making certain brake and steering gear adjustments. Blade is  $\frac{5}{64}"$  thick and  $\frac{1}{4}"$  in width. Overall length is 7".

### No. 2862

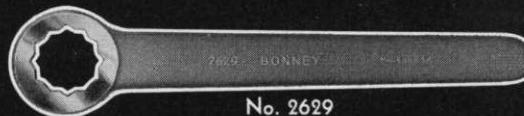
Designed principally for anchor bolt adjustments on Bendix brakes this wrench is also especially adapted to brake adjustments on 1936 Buick cars. Drop-forged of Bonaloy Steel, it has  $1\frac{5}{16}"$  and  $1\frac{1}{16}"$  double hexagon openings. Overall length is  $15\frac{5}{8}"$ . Is fully chrome plated, with polished heads.

### No. 2582

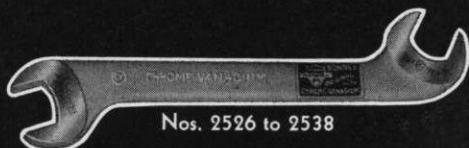
A special tool designed especially for adjusting brake anchor pins on 1935 and 1936 Pontiac cars. Blades are  $\frac{1}{2}"$  wide,  $\frac{9}{64}"$  thick. Overall length is 9".

### No. 2581

Designed for and specially adapted to adjustments on all Steeldraulic brakes. Length  $5\frac{1}{2}"$  overall.



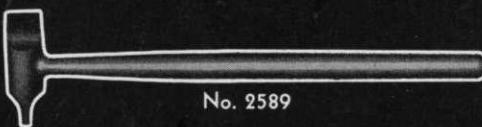
No. 2629



Nos. 2526 to 2538



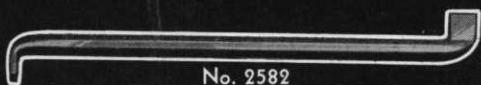
Long Engineers' Wrenches



No. 2589



No. 2862



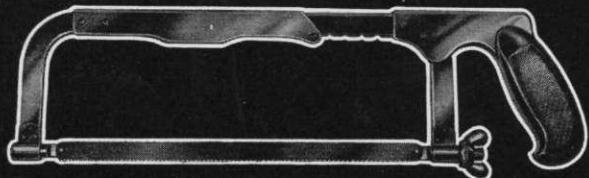
No. 2582



No. 2581



*The Finest that  
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Adjustable Hack Saw Frame

## MISCELLANEOUS SPECIAL TOOLS

### Adjustable Hack Saw Frame

**N**O. 2628—A sturdily built, adjustable hack saw frame that will give long and satisfactory service. The checkered steel pistol grip fits comfortably in the hand. The back is reinforced and is adjustable for from 8" to 12" blades. Blades may be faced in four directions. Has full nickel finish. Makes a splendid frame for automotive and industrial mechanics. Net weight 1½ lb.

### Flexible Hack Saw Blades

(Tungsten Alloy Steel)

Flexible Back-Hardened Teeth

The teeth in these blades are carefully milled and set for fast cutting. The blades are correctly hardened and tempered.

No.	Length	Width	Gauge	Teeth per inch	Blade Series
F1018	10"	1/8"	.025	18	Coarse
F1024	10"	1/2"	.025	24	Medium
F1032	10"	1/2"	.025	32	Fine
F1218	12"	1/2"	.025	18	Coarse
F1224	12"	1/2"	.025	24	Medium
F1232	12"	1/2"	.025	32	Fine

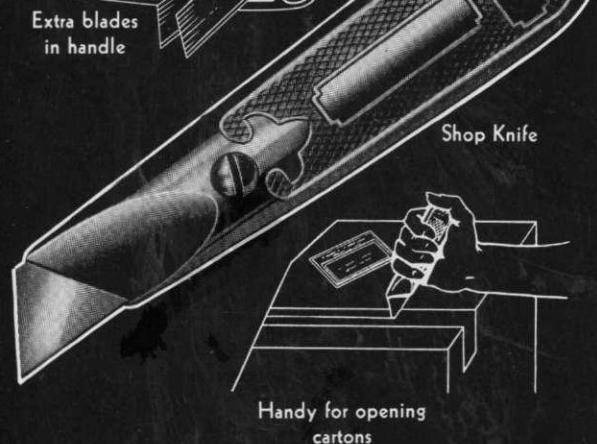
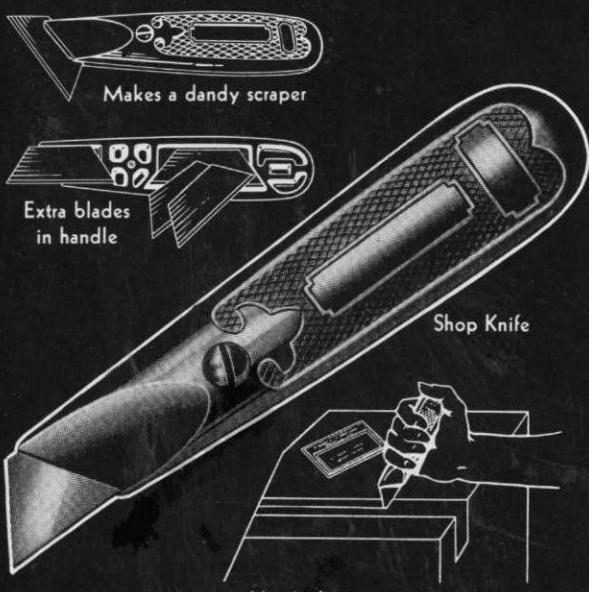
### All Hard Hack Saw Blades

(Molybdenum High Speed Steel)

Non-flexible—for difficult jobs such as cutting chrome, nickel and high carbon steel.

No.	Length	Width	Gauge	Teeth per inch	Blade Series
HS1018	10"	1/8"	.025	18	Coarse
HS1024	10"	1/2"	.025	24	Medium
HS1032	10"	1/2"	.025	32	Fine
HS1218	12"	1/2"	.025	18	Coarse
HS1224	12"	1/2"	.025	24	Medium
HS1232	12"	1/2"	.025	32	Fine

All Hard Hack Saw Blades



### No. 199 Shop Knife

One of the handiest tools in the Bonney Line. A strong, light-weight, perfectly balanced shop knife that every mechanic should have in his tool kit. Supplied with five razor-keen blades in the handle. Especially suited for trimming upholstery, top material, rubber, leather, etc. and for cutting gaskets, shims, kickboards, cardboard, etc. Indispensable for opening cartons. Turn the blade crosswise in the handle and it makes a dandy scraper for removing old inspection stickers from windshields. Length overall 6".

# MISCELLANEOUS SPECIAL TOOLS



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## BONNEY Feeler Gauges

Bonney Feeler Gauges are made from the finest, imported Swedish Steel, carefully heat-treated and tempered to withstand wear. Each blade is tested to insure the exact thickness which is etched on it.

Bonney Feeler Gauges are equipped with a knurled thumb nut for instant release and selection of the blade desired. When tightened, this thumb nut securely holds the blade selected in working position, while blades not needed are securely locked in the handle.

### No. K50 Brake Adjusting Gauge

For measuring clearance between brake drum and shoe. 9 blades 4" long in the following thicknesses—.006; .008; .010; .012; .015; .018; .020; .022 and .032.

### No. K51 General Purpose Gauge

Especially for tappet and ignition work—the most popular gauge on the market. 10 blades  $\frac{1}{8}$ " long, 10 blades  $\frac{3}{16}$ " long and 3" point file. Short blades in following thicknesses—.012; .013; .014; .018; .020; .022; .024; .025; .028; .032. Long blades in following thicknesses—.002; .003; .004; .005; .006; .007; .008; .010; .013; .015.

### No. K52 Ignition Gauge

Contains 10 narrow blades  $\frac{1}{8}$ " long and 3" point file for ignition, distributor points and spark plugs. Thickness of blades included as follows—.012; .013; .014; .018; .020; .022; .025; .028; .032 and .035.

### No. K53 Universal Master Gauge

Has full range of spacers—25 blades, each  $\frac{3}{16}$ " long in following thicknesses—.0015; .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .028; .030; .032 and .035.

### No. K54 Standard Feeler Gauge

Contains 10 blades  $\frac{3}{16}$ " long in following sizes—.002; .003; .004; .005; .006; .007; .008; .010; .012 and .015.

### No. K55 Extra Long Feeler Gauge

Exceptionally useful for pistons, etc. Has 8 blades, each  $8\frac{5}{8}$ " long in the following sizes—.002; .003; .004; .005; .006; .008; .010; .015.

### No. K56 Single End Feeler Gauge Stock Holder

#### POSITIVE ADJUSTABLE LOCK

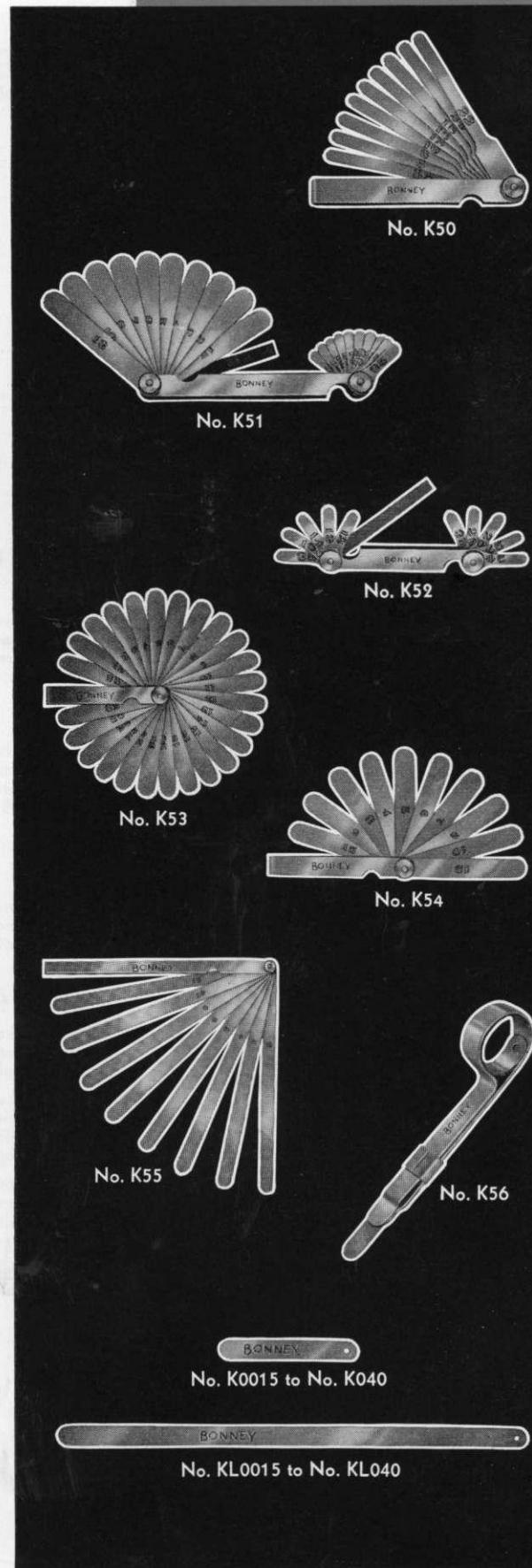
Any thickness of feeler gauge stock coils within the handle and can readily be pulled out for use. Any desired length of strip stock or standard 12" blades may be used. Positive sliding lock securely holds blades. Made from hard drawn, cold rolled steel and satin nickel plated. Length 4 $\frac{1}{2}$ ". Weight 1 oz.

### Extra Blades

Designed to fit practically any holder, the  $\frac{3}{16}$ " blades are available in all the popular range of thicknesses and with hole for insertion in gauges. The 12" lengths are popular for use in the No. K56 Stock Holder which makes the blades usable to the end.

Both  $\frac{3}{16}$ " and 12" blades are packed 6 in a cellophane envelope. Sizes are listed below.

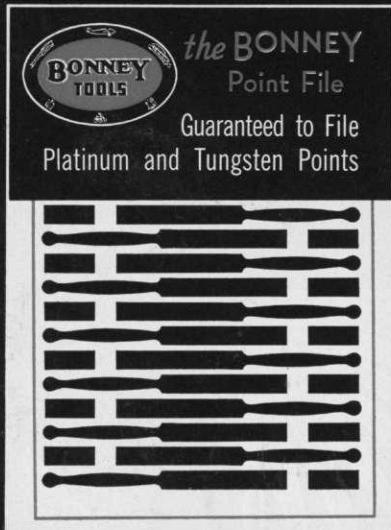
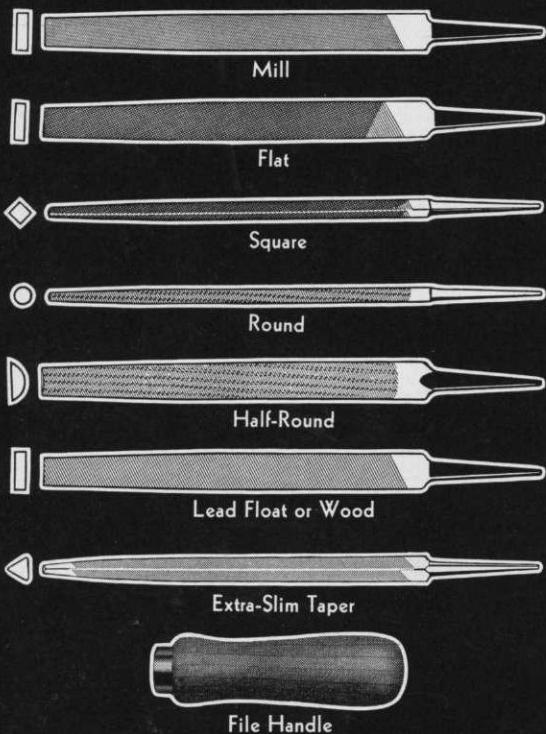
1/2" x 3 $\frac{5}{16}$ " Blades		1/2" x 12" Blades	
Number	Thickness	Number	Thickness
K0015	.0015	KL0015	.0015
K002	.002	KL002	.002
K004	.004	KL004	.004
K005	.005	KL005	.005
K006	.006	KL006	.006
K007	.007	KL007	.007
K008	.008	KL008	.008
K010	.010	KL010	.010
K012	.012	KL012	.012
K013	.013	KL013	.013
K015	.015	KL015	.015
K016	.016	KL018	.018
K018	.018	KL024	.024
K024	.024	KL025	.025
K025	.025	KL032	.032
K032	.032	KL035	.035
K035	.035	KL040	.040
K040	.040		





## MISCELLANEOUS SPECIAL TOOLS

*The Finest that Money Can Buy*



Point Files on Card



### Bonney Files

**BONNEY** Files are made in 7 types and each type in the sizes which find most common use, as shown in the tables below. They are of quality consistent with all other tools in the Bonney Line.

MILL BASTARD	FLAT BASTARD	SQUARE BASTARD
Size	Size	Size
6"	6"	6"
8"	8"	8"
10"	10"	10"
12"	12"	12"
14"	14"	14"
16"	.....	.....

ROUND BASTARD	HALF-ROUND BASTARD	LEAD FLOAT OR WOOD (FLAT)	EXTRA-SLIM TAPER
Size	Size	Size	Size
.....	.....	.....	5"
6"	6"	.....	6"
8"	8"	.....	8"
10"	10"	.....	.....
12"	12"	12"	.....
14"	14"	14"	.....

Standard Package Quantities—Files up to and including 10" in length are packed 1 dozen to the package. Files over 10" in length are packed 1/2 dozen to the package.

### File Handles

Handles are of wood—plain, without finish. They have metal ferrule which prevents splitting at the file tang opening. Made in three sizes—Small for 5" and 6" files; Medium for 8" and 10" files; Large for 12", 14" and 16" files.

### Point File

The Bonney Point File is a quality file, guaranteed to file platinum and tungsten points on all ignition systems. 5 3/8" long overall. Sold one dozen on attractive display card.

### Handy Holding Tools

These tools are ideal for screw holding, gripping, inserting, removing and picking up. They work equally well on screws, washers, nuts, bolts, taper pins, valve pins and similar objects.

The four fingers (made of spring steel) are forced outward and open when pressure is brought on the plunger. When the pressure is released the strong coil spring closes the fingers tightly around the object. It is impossible for the object to lean over or fall out.

Bonney Handy Holding Tools are used by electricians, radio service men, locksmiths, piano tuners, and in servicing typewriters, adding, calculating, linotype and similar machines, as well as by automotive mechanics.

Finished in full nickel.

No.	Reach	Overall Length
K4	4"	6 3/4"
K6	6"	8 3/4"
K8	8"	10 3/4"
KF	12"	14 3/4"

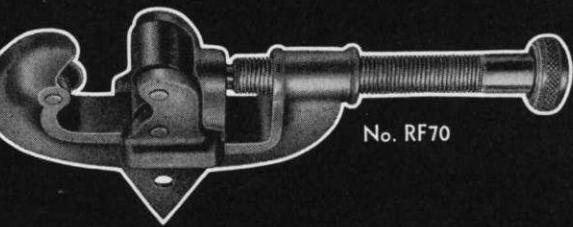
## MISCELLANEOUS SPECIAL TOOLS



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### No. RF70 Tube Cutter

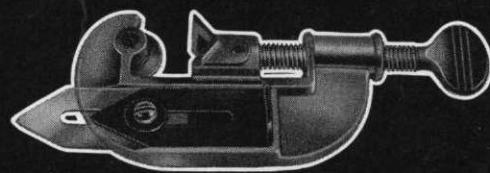
HERE'S a fine quality, compact, light, strong cutter for brass or copper tubing from  $\frac{1}{8}$ " to 1". The razor-edge cutting wheel is of alloy steel and gives a quick, clean cut. Put the cutter on the tubing, screw the rollers up tight and simply turn the tool around the tubing until the cut is made. No additional adjustment of the screw is needed. The tubing is not distorted and the rollers smooth the tube ready for soldering or flaring. Net weight 1 lb.



No. RF70

### No. RF59 Tube Cutter

A compact, efficient tube cutter for all tubing from  $\frac{1}{8}$ " to 1" O. D. Body is an alloy die casting. Wafer-tapered, hardened cutting blade makes cutting easy and with practically no burr. The slide-lock safety reamer opens instantly and protects the hands when not in use. It may be safely carried in your pocket. A low-priced, quality tool. Net weight  $\frac{1}{2}$  lb.



No. RF59

### Tube Benders

#### EXTERNAL TYPE

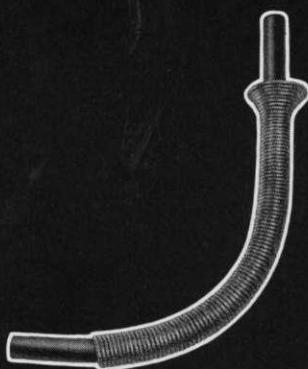
Ideal for bending copper and other tubing by hand to any desired shape without collapsing the tube.

Made of special oil-hardened spring steel, cadmium plated. The belled end assures ease in removing the tubing after the bend has been made.

No.	For Size Tubing	No.	For Size Tubing
RF60	$\frac{1}{4}$ "	RF63	$\frac{7}{16}$ "
RF61	$\frac{5}{16}$ "	RF64	$\frac{1}{2}$ "
RF62	$\frac{3}{8}$ "	RF65	$\frac{5}{8}$ "

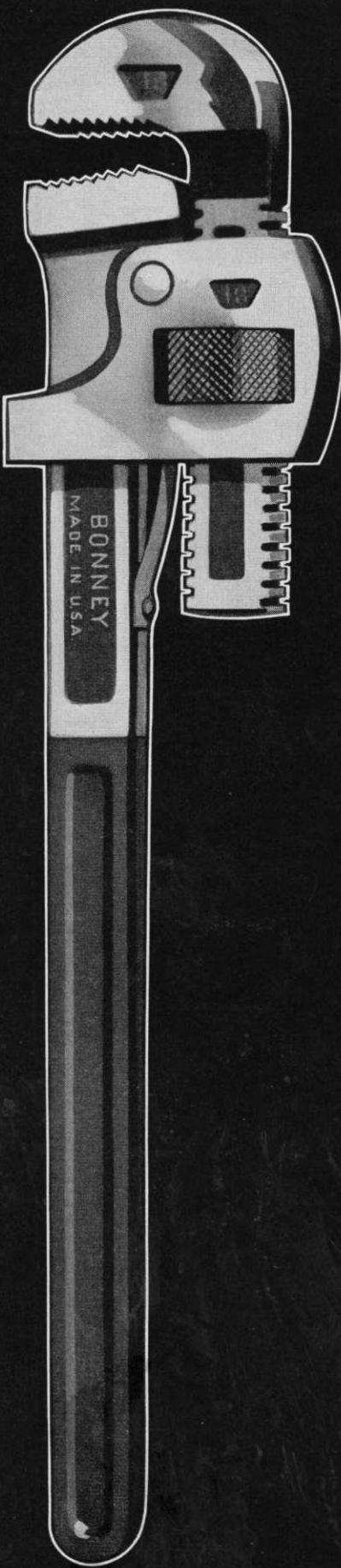
### No. RF66 Tube Bender Set

Every service man should have a complete set of tube benders in his kit. The set consists of one each of the above sizes.



Nos. RF60 to RF65

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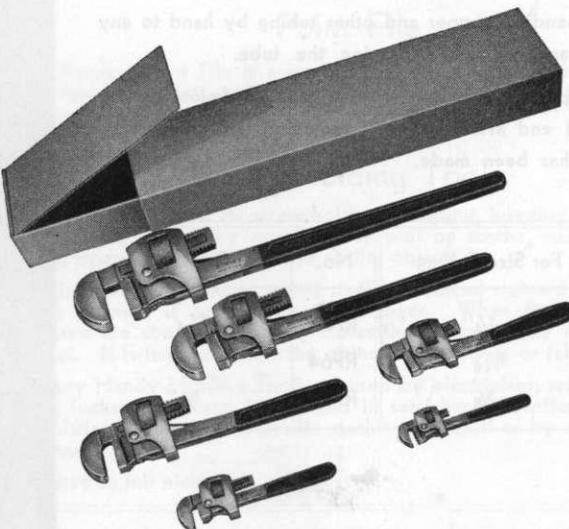


## BONNEY STILLSON WRENCHES

BONNEY Stillson Wrenches are correctly designed and sturdily built. They are made of materials considered most suitable for the work to which wrenches of this type are subjected. The handles and jaws are drop-forged and specially heat-treated to produce tough, durable teeth. The knurled adjusting nut is machined from solid stock to assure smooth working surfaces, while the frame is a semi-steel casting.

Length	Grips Pipe	Length	Grips Pipe
6"	1/8" to 1/2"	18"	1/4" to 2"
8"	1/8" to 3/4"	24"	1/4" to 2 1/2"
10"	1/8" to 1"	36"	1/4" to 3 1/2"
14"	1/4" to 1 1/2"	48"	1" to 5"

### No. 77 Stillson Wrench Set



The Bonney Stillson Wrench Set No. 77 was specially selected to cover a wide range of requirements for Stillson Wrenches. It contains one each of the 6 inch, 8 inch, 10 inch, 14 inch, 18 inch and 24 inch Wrenches. Comes packed in substantial box. Weight 18 lbs.

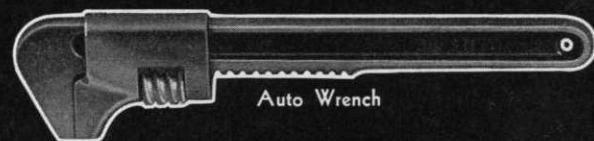
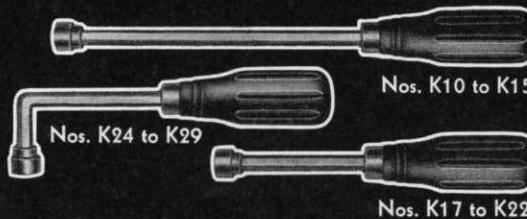


# BONNEY ADJUSTABLE and SPINNER WRENCHES

*The Finest that Money Can Buy*



Open End Adjustable Wrenches



Auto Wrench

## Open End Adjustable Wrenches

**B**ONNEY Open End Adjustable Wrenches are designed to fit either square or hexagon nuts. They are drop forged of alloy steel, fully chrome plated, with polished jaws. Jaws are unusually thin to get into normally inaccessible places. Both handle and jaw are hardened and tempered in oil. They will not break or wear in the gear teeth and allow play in the wrench, permitting the jaw to slip off the nut. Four tempered threads meshing in the forged jaw permit great pressure on the handle.

Five sizes of Bonney open end Adjustable Wrenches are available as listed in the table below.

Number	Size (Length)	Capacity	Net Weight each
BW4	4"	1/2"	3 oz.
BW6	6"	3/4"	5 oz.
BW8	8"	15/16"	10 oz.
BW10	10"	11/8"	1 lb. 1 oz.
BW12	12"	17/16"	1 3/4 lb.

## Spinner Wrenches

**D**ESIGNED especially for reaching the little nuts that can be handled only with exceptionally small sockets. Made like a screw driver with a wood handle and a hexagon socket on the end that grips the nut firmly.

The shanks are of 1/4" hexagon rod. They can be gripped with pliers or a wrench to loosen an unusually tight nut.

Furnished in 6" or 9" length, or in bent handle type as shown.

No.	Hexagon Opening	Overall Length
K10	3/16	9" Straight
K11	1/4	9" Straight
K12	5/16	9" Straight
K13	11/32	9" Straight
K14	3/8	9" Straight
K15	7/16	9" Straight
K17	3/16	6" Straight
K18	1/4	6" Straight
K19	5/16	6" Straight
K20	11/32	6" Straight
K21	3/8	6" Straight
K22	7/16	6" Straight
K24	3/16	6" Offset
K25	1/4	6" Offset
K26	5/16	6" Offset
K27	11/32	6" Offset
K28	3/8	6" Offset
K29	7/16	6" Offset

## Auto Wrenches

A very useful and handy wrench for many purposes. Drop-forged of quality steel and full polished.

Two sizes—9" and 11" lengths.

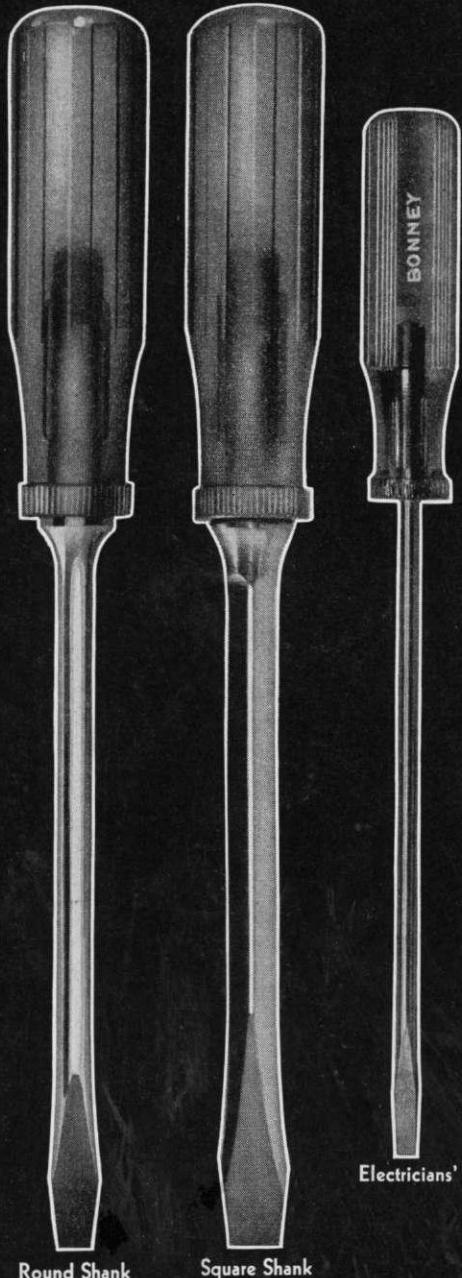


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BONNEY Screw Drivers are made with solid, forged, one-piece blades. The blades are formed with an upset shoulder against which the handles are forced (except in the electricians' pattern). Each blade is heat treated throughout its entire length and is ground and polished. They are firmly anchored in the handles to prevent turning or loosening. The tips are accurately taper ground to insure a non-slip fit in screw slots.

## BONNEY SCREW DRIVERS

All screw drivers shown on this page and page 85 have exceedingly tough handles that are non-conductors of electricity. The handles are fluted and provide a secure, comfortable grip. Bonney Screw Drivers are not only the most durable and most practical drivers ever offered to the mechanic, but are finished in keeping with the high quality of the tool.



### Round Shank

Solid, forged, one-piece blades are forced into handles against the upset shoulder to insure an absolutely tight fit. The blades are heat treated throughout their entire length. Handles are of transparent, non-conducting composition.

No.	Length of Blade	Width of Tip	Overall Length
04	4"	1/4"	7 3/4"
06	6"	5/16"	10 1/4"
08	8"	3/8"	13"
012	12"	7/16"	17 1/2"

### Square Shank

Blades are forged in one piece, heat treated their full length and firmly anchored in the handles. Handles are non-conductors of electricity. The tip is not merely an extension of two of the square shank surfaces, but is forged and taper-ground.

No.	Length of Blade	Width of Tip	Overall Length
S04	4"	5/16"	7 3/4"
S06	6"	7/16"	10 1/4"
S08	8"	1/2"	12 3/4"
S012	12"	1/2"	17 1/2"

### Electricians'

This line of screw drivers has many uses in electrical work. They are of the same high quality and finish as the drivers described above. Made in three sizes.

No.	Length of Blade	Width of Tip	Overall Length
003	3"	3/16"	6 1/2"
006	6"	3/16"	9 1/2"
0010	10"	3/16"	13 1/2"

# BONNEY SCREW DRIVERS

WOOD HAND E SCREW DRIVERS

## No. 001 Pocket Size

**E**VERY mechanic has need for a pocket size screw driver. The No. 001 will "fill the bill" in every way. Clip for securely holding the driver in pocket supplied with each one. The blade is forged with taper-ground tip and the handle is of transparent, non-conducting composition.

No.	Length of Blade	Width of Tip	Overall Length
001	2"	1/8"	4"

## No. E02 Pocket Size With Neon Tube

For "out on the road" jobs, this screw driver is one of the handiest tools in a mechanic's kit.

It has a tough, composition handle that is a non-conductor of electricity, with a neon tube for testing spark plugs. The tip is magnetized and a wire guard slides over the tip to protect the pocket. A handy, pocket clip is also supplied. The blade is forged of special screw driver steel, heat-treated, with taper-ground tip.

No.	Length of Blade	Width of Tip	Overall Length
E02	2 1/4"	1/8"	5"

## No. 00A Instrument Screw Driver

**A** mighty handy little tool for making delicate adjustments on fine electrical, radio and ignition apparatus. Made in exactly the same way and of the same quality materials as its "big brothers" shown on the preceding pages. Handle is non-conductor type.

No.	Length of Blade	Width of Tip	Overall Length
00A	1 1/2"	1/16"	2 7/8"

## No. E03 With Neon Tube

The neon tube in the tough composition handle of this screw driver makes it a most useful tool for automotive and electrical work. It's made to stand hard usage.

When testing spark plugs, a brilliant, orange flash shows the plug is O. K. Completely shorted plugs produce no flash. A "stringy" flash shows the plug is partly fouled.

The blade is forged with taper-ground tip and securely anchored in the handle.

No.	Length of Blade	Width of Tip	Overall Length
E03	3"	3/16"	6 1/2"

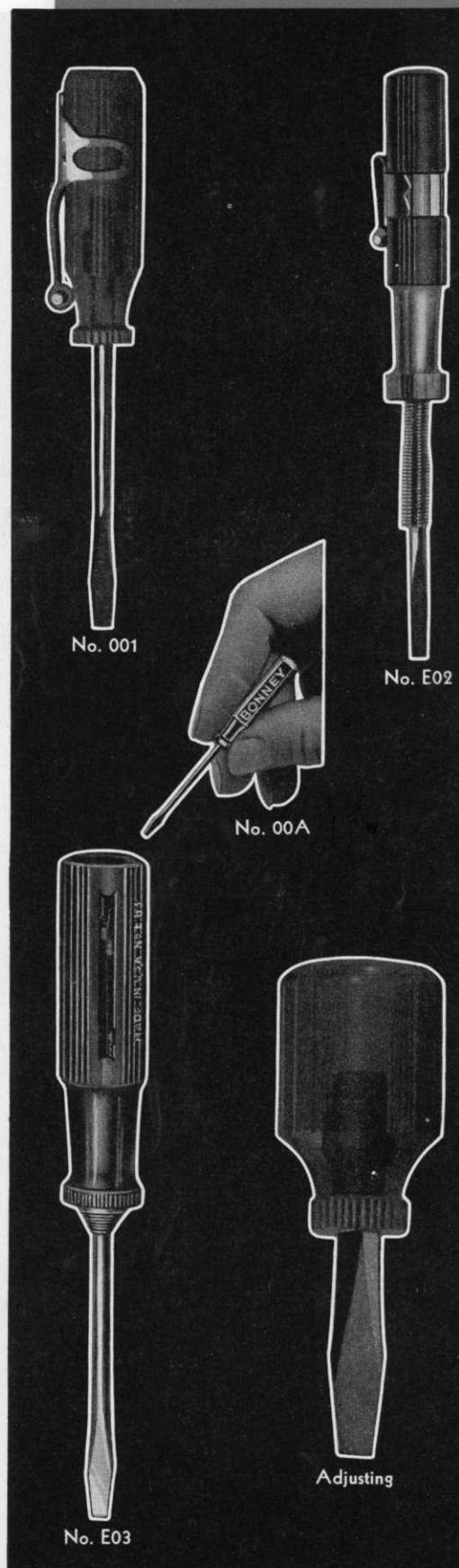
## Adjusting

A strong, sturdy screw driver for making fine adjustments. The handle is designed to fit comfortably in the hand and to provide a firm grip. It is of transparent, non-conducting composition.

No.	Length of Blade	Width of Tip	Overall Length
S01	1 3/4"	1/4"	3 3/4"
S02	1"	1/4"	2 3/4"



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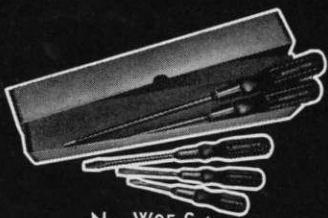
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Nos. W03 to W010



No. W015



No. W05 Set



No. WO15



No. W8-2



No. W8-3



No. W8-4



No. W8-5



No. W8-6

# BONNEY WOOD HANDLE SCREW DRIVERS

## No. WO3 Series

THIS line of quality, wood handle screw drivers will stand up under severe use. Blades are drop-forged from selected alloy steel and carefully heat treated their entire length. Tips are taper-ground.

The hardwood handles are fluted to provide a firm, comfortable grip and bolsters firmly anchor the blades to the handles.

No.	Length of Blade	Width of Tip	Overall Length
W03	3	7/32	7 1/4
W04	4	1/4	9
W06	6	5/16	11 3/4
W08	8	3/8	14 1/2
W010	10	7/16	16 1/2

## No. WO5 Screw Driver Set

This assortment contains one each of numbers W03, W04, W06, W08 and W010. It offers a remarkably complete set which meets practically every screw driver need. All of them are made to withstand long, severe use. Balance which distinguishes all fine tools is built into every Bonney Screw Driver.

## No. WO15 Tappet Adjusting Screw Driver

A wood handle tool similar to a screw driver for tappet adjusting jobs on overhead valve motors (Chevrolet, Buick, etc.) It is designed so that it cannot slip out of the slot. To be used in connection with open end wrench for tappet adjustments. Length overall 6 1/2".

## Bonney Replaceable Bit Screw Driver For Phillips and Slotted Head Screws

One handle—5 bits—give you five quality screw drivers for little more than the price of one.

Chuck or bit holder is an improvement on the principle of taper shank engagement. Insert proper bit in chuck and tap it on a piece of wood to secure it in place. Rap bar lightly, near the tip, to release the bit.

The chuck is forged as an integral part of the tempered alloy steel bar. The hardwood handle is securely fastened to the bar and provides a comfortable grip. The bits are made of high quality alloy steel. They are carefully tempered and hardened to give maximum wear for driving case-hardened screws. Precision made, they will prove entirely satisfactory where exact fit of bit to screws is necessary.

No.	Description
W8	Assortment, includes No. W8-1 Bit Holder and one each Bits Nos. W8-2, W8-3, W8-4, W8-5 and W8-6.
W8-1	Bit Holder, Wood Handle, 8 1/4" overall, weight 4 oz.
W8-2	Bit, fits Phillips Screws Nos. 5 to 9 (No. 2 Phillips Recess).
W8-3	Bit, fits Phillips Screws Nos. 10 to 16 (No. 3 Phillips Recess)
W8-4	Bit, fits slotted head screws Nos. 5—7 (actual thickness of bit .030")
W8-5	Bit, fits slotted head screws Nos. 7—9 (actual thickness of bit .035")
W8-6	Bit, fits slotted head screws Nos. 9 and larger (actual thickness of bit .040").



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## BONNEY PLIERS

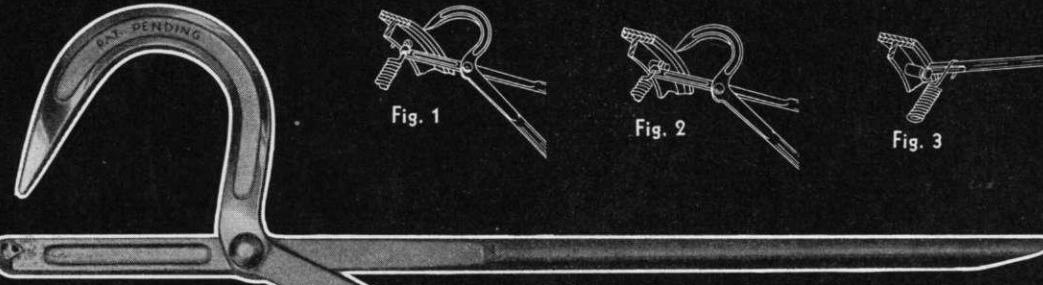
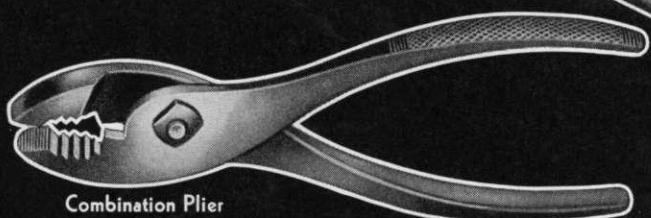


Fig. 1

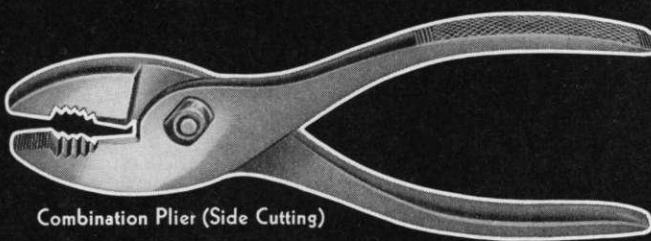
Fig. 2

Fig. 3

No. 2680—Patent Pending



Combination Plier



Combination Plier (Side Cutting)

### Combination Pliers

THIS series of combination pliers satisfies the demand for a line of pliers for general "all-purpose" work. They are accurately made of special steel to give them unusually long life. They are full finished and the handles are knurled. Great care was taken in the design to give them the perfect balance that promotes speedy work.

Nos. B5, B6, B8 and B10 are identical except for size. No. B15 has the additional feature of side-cutting jaws.

No.	Description
B5	Combination Plier, 5"
B6	Combination Plier, 6"
B8	Combination Plier, 8"
B10	Combination Plier, 10"

B15—Combination Plier (Side Cutting), 6 in.

### No. 2680 Brake Spring Plier

Patent Pending

A N unusually efficient brake spring plier designed especially for the removal and replacement of internal brake springs on all types and sizes of cars and trucks.

The hooked end of the plier grasps the brake spring firmly, while the "goose neck" pointed side of the plier makes firm contact with the brake lining on the shoe and prevents any possibility of slipping.

The plier can be used equally well in the removal of springs held in place by the hole in the brake shoe or by a stud attached to the brake shoe.

In replacing brake springs on brakes that have the stud fastened to the brake shoe, the notched end of the plier will be found exceptionally useful.

Figure 1 illustrates the use of the plier in removing springs from brake shoes with the hole. Figure 2 illustrates the removal of the spring from brakes with the stud, and Figure 3 illustrates the ease with which springs may be replaced on brakes with the stud.

The No. 2680 Brake Spring Plier is drop forged of Bonaloy Steel, carefully heat-treated, with full chromium plated finish. It is light in weight, weighing only 11 ounces. The 12½" length of this plier permits leverage to handle the strongest springs with ease.

# BONNEY PLIERS

## Thin Nose Combination Pliers

THIS TYPE of plier is the thin nose design which has many different uses. It is especially valuable for work in cramped spaces. Made of highest grade alloy steel. Completely polished and plated, with knurled handle.

No.	Description
B11	Combination Plier (Thin Nose), 5"
B12	Combination Plier (Thin Nose), 6"

## Linemen's Cutting Pliers

Made from alloy steel, light in weight and of great strength. The handles fit the hand perfectly and are knurled. The cutting qualities are unsurpassed. Full polished finish.

No.	Description
B22	Linemen's Plier, 6"
B23	Linemen's Plier, 8"

## No. B17 Diagonal Cutting Plier

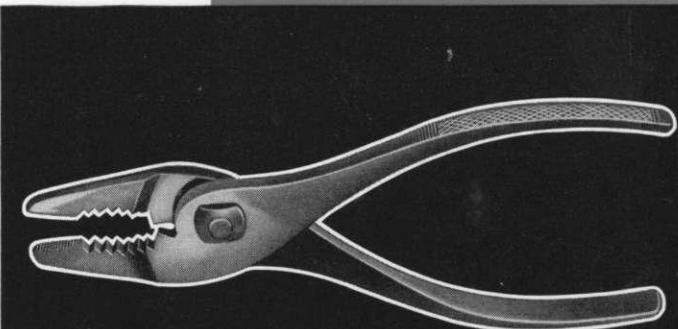
This plier is drop-forged from special analysis steel. The cutting edges are built to give long, hard service. Full polished finish with knurled handles. Length 6".

## No. B18 Heavy Duty Diagonal Cutting Plier

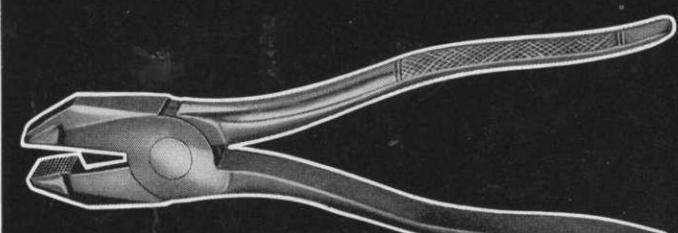
Drop forged from a high grade, special analysis steel, this plier is heat treated throughout its entire length. The long cutting edges are carefully ground and made to withstand the hardest service. Finished with polished head and blued handles. Overall length 7".



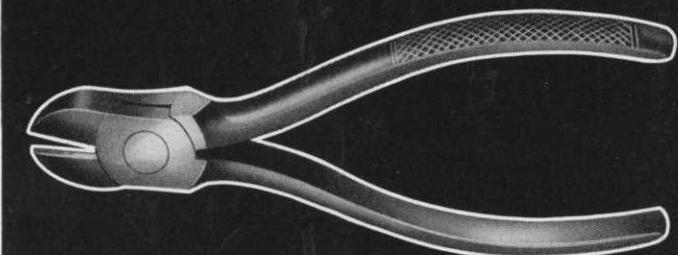
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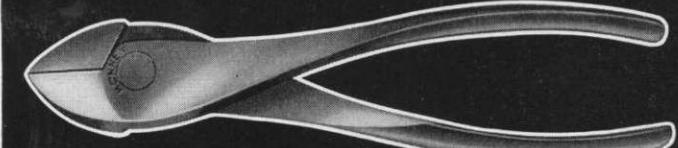
Thin Nose Combination Plier



Linemen's Cutting Plier



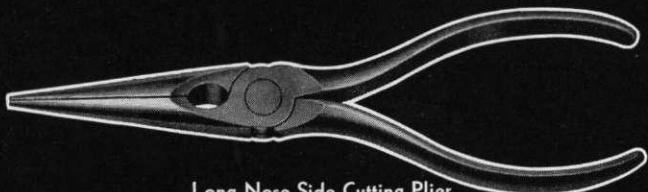
Diagonal Cutting Plier



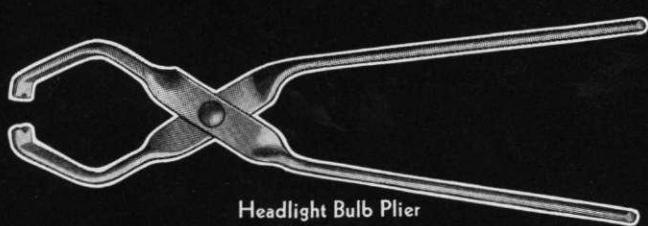
Heavy Duty Diagonal Cutting Plier



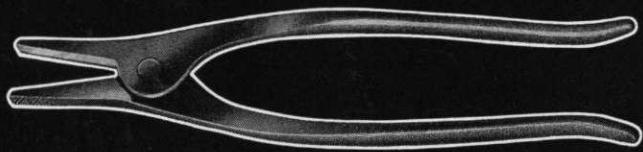
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Long Nose Side Cutting Plier



Headlight Bulb Plier



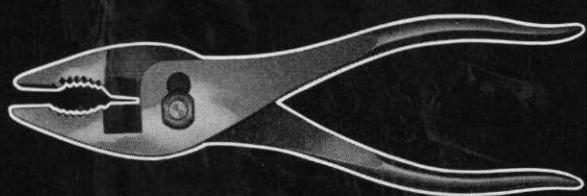
Lock Ring Plier



Self-Gripping Battery Plier



Diagonal Cutting Plier



Combination Side Cutting Plier

## BONNEY PLIERS

### No. B25 Long Nose Side Cutting Plier

This is a long, fine, spring-tempered nose, side cutting plier, drop-forged from alloy steel and carefully heat treated. The long nose of this plier will reach into tight places inaccessible with any other plier, and the keen edged cutter will cut practically any wire found in automotive work except the heavier ignition and battery cables. Each tool is individually tested for strength and cutting ability. Finished with polished nose and blued handles. Length 6".

### No. B24 Headlight Bulb Plier

A plier needed by every mechanic and service station attendant for removing broken headlight bulbs. Drop-forged of special steel with jaws shaped to fit around base of bulb and notched to insure a secure grip. Plated finish. Length overall 8 1/4 inches.

### No. B21 Lock Ring Plier

Designed especially to spread the snap lock rings and horseshoe type of brake key in order to remove them from brakes, transmissions, differentials, pedal, clutch and fan pulley shafts when removing them from the assembly. Drop-forged of chrome-alloy steel, chrome plated, with high permanent lustre. Outside of jaws are toothed to prevent any possibility of slipping. Plier will spread any lock ring washer up to 1 1/4" in diameter. Length 8".

### Champion-DEARMENT Pliers

#### No. B307 Self-Gripping Battery Plier

Drop forged of high grade alloy steel, the jaws of this plier will take positive grip on anything that can be inserted in them. Pressure need be applied to only one handle. Joint is constructed to remove all strain from rivet. Blued finish, with knurled handles. Capacity 1/4" to 5/8". Length 7 inches. Net weight 6 ounces.

#### No. B437 Diagonal Cutting Plier

Drop forged from special alloy steel and carefully heat treated. Handles are deeply knurled and shaped to assure a comfortable grip. Polished finish. Length 7 1/4". Net weight 8 ounces.

#### No. B537 Combination Side Cutting Plier

Drop forged of alloy steel, heat-treated, this Champion DeArment Combination Side Cutting Plier is accurately and carefully made. Side cutting jaws are accurately ground. Handles are deeply knurled and provide a comfortable grip. Finished with blued handles and polished jaws. Length 7 1/2". Net Weight 8 1/2 oz.

# CHANNELLOCK PLIERS

TRADE MARK

REG. U. S. PAT. OFFICE



Note the Channellock

## No. B410 Self-Gripping Plier

The tongue and groove Channellock joint in these Self-Gripping Pliers provides a vise-like grip entirely independent of the gripping power of the user's hand. The most stubborn nut or pipe may be turned merely by applying pressure to one handle of the tool. The large bearing surface of the Channellock joint provides quick, positive adjustment, eliminating any possibility of shearing the joint bolt even under the extreme power provided by the plier. Made of highest grade alloy steel, carefully heat treated, with polished finish. Has four adjustments, providing gripping capacity from  $\frac{3}{16}$ " to  $1\frac{1}{8}$ ". Length  $9\frac{1}{2}$ ", net weight 15 oz.

## No. B420 Pump Plier

Light and thin, but of exceptional strength because of the Channellock feature, this plier is particularly serviceable in adjusting packing gland nuts on practically all cars, trucks and smaller industrial engines. The strain is removed from the bolt because of the Channellock feature, and there is no danger of the bolt breaking. Drop forged from special alloy steel, carefully heat treated. Has polished finish, knurled handles. Five adjustments provide a capacity from  $\frac{1}{2}$ " to  $1\frac{1}{8}$ ". Length  $9\frac{1}{2}$ ". Net weight 11 ounces.

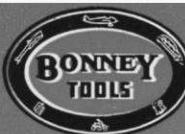
## No. B424 Ignition Plier

Drop forged from finest quality alloy steel, carefully heat treated, this plier has unusual strength because of the patented Channellock design. Because of the design, there is no strain on the bolt and no danger of the bolt breaking. Has polished finish, four adjustments. Length  $4\frac{1}{2}$ ". Net weight  $1\frac{1}{3}$  ounces.

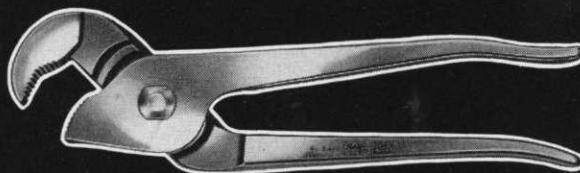
## No. B407 General Purpose Plier

Drop forged of special alloy steel and carefully heat treated, this revolutionary plier has the patented Channellock feature. Self-gripping jaws take positive grip on acid corroded and mutilated battery terminal nuts. Pressure need be applied to only one handle. The more pressure the tighter the pliers grip. All strain is removed from the bolt. The thin nose clears filler caps.

Has two adjustments providing capacity from  $\frac{1}{8}$ " to  $\frac{9}{16}$ ", making it useful for removing small grease plugs, Alemite and small copper connections, etc. Also adaptable for brake rod connections. Has polished finish with knurled handles. Length 7 inches, net weight  $\frac{1}{2}$  lb.



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Self-Gripping Plier



Pump Plier



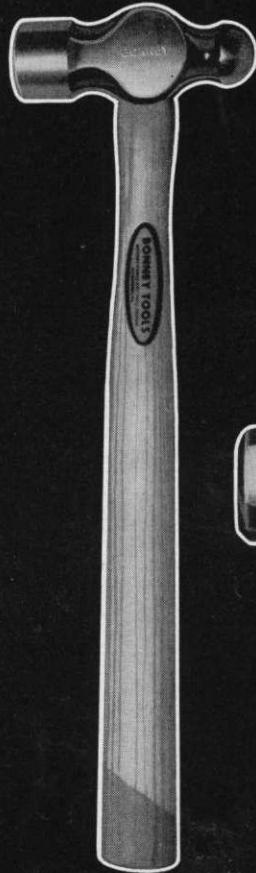
Ignition Plier



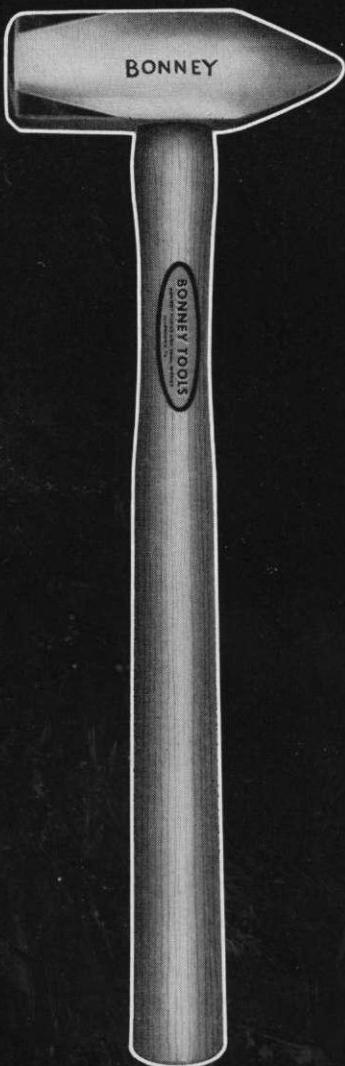
General Purpose Plier



The Finest that  
Money Can Buy



Ball Pein Hammer



Tire and Rim Hammer

## BONNEY HAMMERS

### Ball Pein Hammers

THE octagon-shaped heads of Bonney Ball Pein Hammers are drop-forged from special hammer steel, while the handles are made of fine, straight-grained hickory. The handles are dipped to toughen the eye end and are forced into the head and securely locked in position by two steel wedges.

No.	Head Weight	Length
PH1	2 oz.	10"
*PH2	3½ oz.	11"
PH5	½ lb.	13"
PH6	¾ lb.	14"
PH7	1 lb.	14½"
PH9	1½ lb.	16"
PH10	2 lb.	16"
PH13	3 lb.	16"

\*Known as a gasket hammer.

### No. PH19 Tire and Rim Hammer

Drop-forged from a high grade hammer steel and carefully heat treated, this tire and rim hammer will be found to answer every requirement for this type tool. The head has polished finish. The handle is of the finest, straight grained, young hickory, securely fastened in the head. Head weight 3 lbs. Length overall, 16 inches.

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## BONNEY SOFT FACE HAMMERS



No. PH17 Series

**B**ONNEY Soft Face Hammers have tough, amber colored cellulose tips that are replaceable. Handles are of quality hickory, shaped to afford a comfortable grip and are wedged securely in the steel center head.

These hammers are especially useful in aircraft factories, in body and fender repair work, etc., for shaping and forming light sheet metals, as well as in numerous assembly jobs requiring a hammer that will not mar a finely finished surface or delicate machine parts.

Handles are lacquered red with orange end and the steel center head is orange.

### Hammers Complete With Tips

No.	Type of Tips	Head Weight	Handle Length
PH17	2 Regular	1½ oz.	7⁵/₈"
PH18	2 Regular	1¼ lb.	9"
PH15	2 Regular	½ lb.	11¾"
PH20	2 Regular	1 lb.	11¾"
PH21	2 Regular	2 lbs.	12½"
PH40	2 Ball Pein	9 oz.	11¾"
PH41	1 Cross Pein & 1 Straight Pein	9 oz.	11¾"
PH42	1 Regular & 1 Ball Pein	9 oz.	11¾"
PH43	1 Offset Pein & 1 Square	9 oz.	11¾"
PH44	1 Regular & 1 Regular with Brass Insert	10 oz.	11¾"

Nos. PH15, PH20, PH40, PH41, PH42, PH43, and PH44 all have the same size tip studs and tips are interchangeable.

**PACKING**—No. PH21 one in a box, all other sizes two in a box.

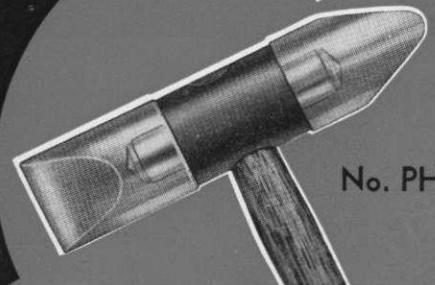
### Extra Tips

For Hammer No.	Type of Tips	Tip Diameter
PH17	Regular—2 Required	5/8" Rd.
PH18	Regular—2 Required	7/8" Rd.
PH15	Regular—2 Required	1 1/4" Rd.
PH20	Regular—2 Required	1 3/8" Rd.
PH21	Regular—2 Required	1 5/8" Rd.
PH40	Ball Pein—2 Required	1 1/4" Rd.
PH41	Cross Pein—1 Required	1 1/4" Rd.
PH41	Straight Pein—1 Required	1 1/4" Rd.
PH42	Regular—1 Required	1 1/4" Rd.
PH42	Ball Pein—1 Required	1 1/4" Rd.
PH43	Offset Pein—1 Required	1 1/4" Rd.
PH43	Square—1 Required	1 1/4" Sq.
PH44	Regular—1 Required	1 1/4" Rd.
PH44	Tip for Brass Insert—1 Required	1 1/4" Rd.
PH44	Brass Insert Only—1 Required	1 1/8" Rd.
PH44	Tip and Brass Insert	

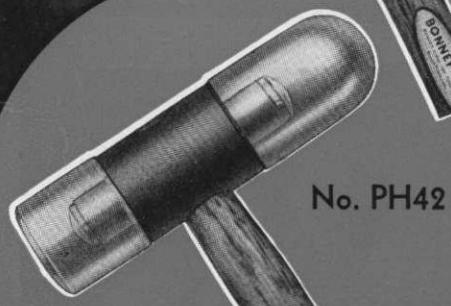
All tips are packed one dozen in a box.



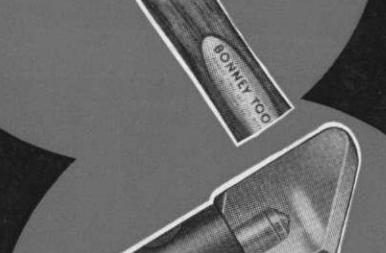
No. PH40



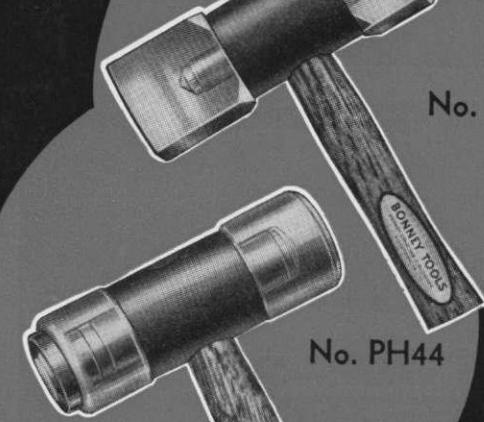
No. PH41



No. PH42



No. PH43



No. PH44



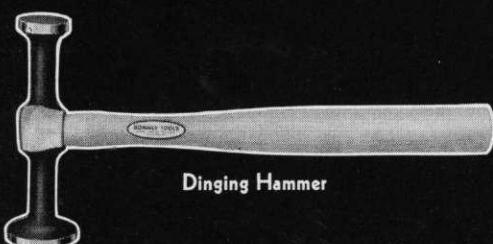
*The Finest that  
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Bumping Hammer



Light Bumping Hammer



Dinging Hammer



Light Ding Hammer



Special Bumping Hammer



Upholsterers' Magnetic Hammer



Tack Claw

## BODYWORKERS' and UPHOLSTERERS' HAMMERS

THE heads of all hammers in this line, with the exception of the Fender Bumping Mallet, are drop-forged from a high-grade hammer steel and are individually tempered. Handles are made from the finest grade selected, straight-grained young hickory and are securely anchored in the heads. These tools are in every way fit companions for those other tools in the Bonney Line which have gained the reputation of being "the finest that money can buy."

### Bumping Hammer

No. PH22—Of the same construction described above, this hammer has polished faces and black body. Head 4 $\frac{1}{4}$  inches long. Round face 1 $\frac{1}{4}$  inches in diameter. Square face 1 $\frac{1}{4}$  inches square. Overall length 12 inches.

### Light Bumping Hammer

No. PH23—A light weight finishing hammer with polished faces on the head and black body. Head 4" long. Round face 1 $\frac{1}{4}$  inches diameter. Square face 1 $\frac{1}{8}$  inches square. Overall length 11 $\frac{1}{2}$  inches. Headweight 9 oz.

### Dinging Hammer

No. PH24—A finishing hammer with faces crowned and polished—body of head finished in black. Head 6 inches long. Large face 1 $\frac{5}{8}$  inches diameter. Small face 1 $\frac{1}{4}$  inches diameter. Overall length 12 inches. Head weight 13 oz.

### Light Ding Hammer

No. PH25—A sturdily made, light weight finishing hammer. Head 6 $\frac{1}{2}$  inches long. Large face 1 $\frac{1}{4}$  inches square. Small face 1 $\frac{1}{16}$  inches diameter. Overall length 11 $\frac{1}{2}$  inches. Head weight 10 oz.

### Special Bumping Hammer

No. PH26—The head is drop-forged with bullet shaped end which makes it easy to remove small dents. Face of the head is polished with body finished in black. Strong hickory handle. Head 4 inches long. Overall length 12 inches. Head weight 7 oz.

### Upholsterers' Magnetic Hammer

No. PH27—Head is 5 $\frac{1}{2}$  inches long, polished all over and one end is magnetized. Overall length 12 inches. Head weight 7 oz.

### Tack Claw

No. PH28—For attaching to handle of No. PH27 Upholsterers' Magnetic Hammer. Full polished finish. Weight 1 oz.

# BODYWORKERS' and UPHOLSTERS' HAMMERS



*The Finest that  
Money Can Buy*

## Fender Bumper

No. PH29—Used underneath the fender in roughing out bumps. Its design eliminates the necessity of removing the wheels. Head 8 inches long. Face  $1\frac{5}{16}$  inches diameter. Overall length 14 inches. Head weight  $1\frac{1}{2}$  lbs.

## Fender Bumper Mallet

No. PH30—Has rubber composition head which excels hickory for durability. It will not shatter, chip or split. Handle is of hickory. Head  $2\frac{1}{2}$  inches in diameter,  $4\frac{1}{2}$  inches long. Handle is  $11\frac{1}{2}$  inches long.

## Long Nose Pricking Hammer

No. PH31—Has long reach pein used in driving up small dents. Drop-forged of selected hammer steel with fine quality hickory handle. All working surfaces highly polished. Head  $9\frac{1}{2}$ " overall. Face  $1\frac{5}{8}$ " diameter. Length 12" overall. Head weight 15 oz. Packed  $\frac{1}{3}$  dozen to the box.

## Point Dinging Hammer

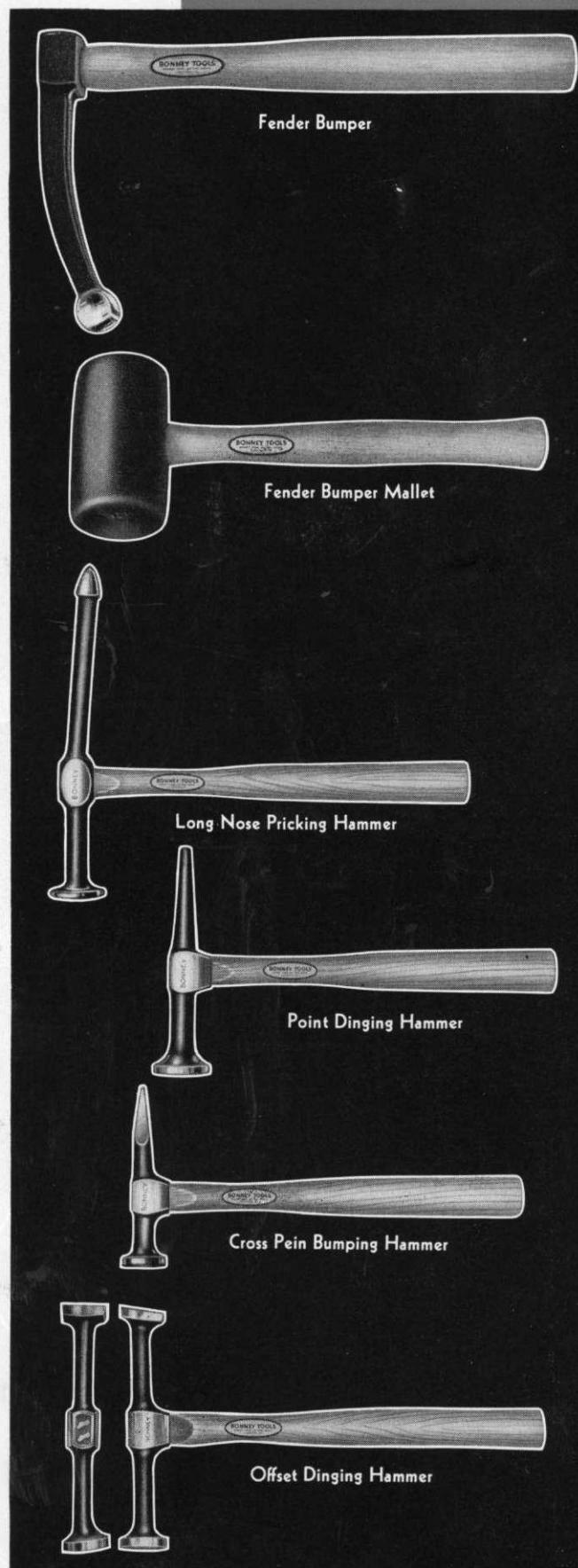
No. PH32—Has medium length point for driving up small dents. Drop-forged steel, with fine hickory handle. Working surfaces highly polished. Head  $6\frac{3}{4}$ " overall. Head weight 13 oz. Packed 6 to the box.

## Cross Pein Bumping Hammer

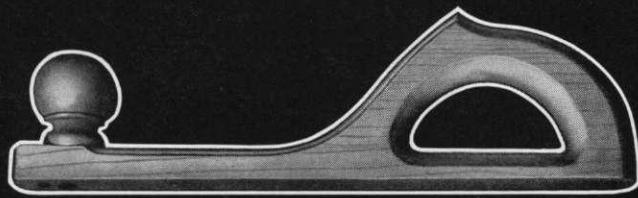
No. PH33—For work on beads, mouldings and sharp corners this Cross Pein Bumping Hammer is ideal. Head is drop-forged steel with polished working surfaces. Handle is first quality hickory. Head  $5\frac{1}{4}$ " overall. Round face  $1\frac{1}{4}$ " diameter. Pein  $\frac{5}{8}$ " wide. Length overall  $11\frac{1}{2}$ ". Head weight 9 oz. Packed 6 to the box.

## Offset Dinging Hammer

No. PH34—The offset faces of this hammer permit striking a flat face blow while working on a crowned surface or uneven angles. Head is drop-forged steel with polished working surfaces. Handle of fine quality hickory. Head  $6\frac{1}{2}$ " long. Head weight 10 oz. Packed 6 to the box.



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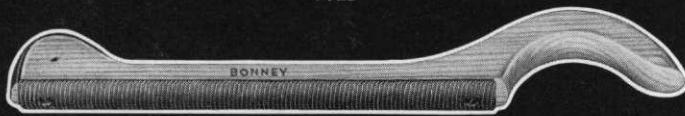
F24



F25



F32



F33



F33B



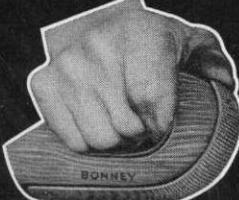
F34



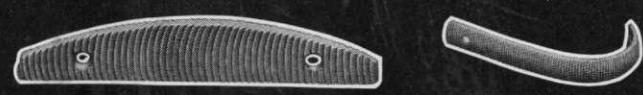
F34B



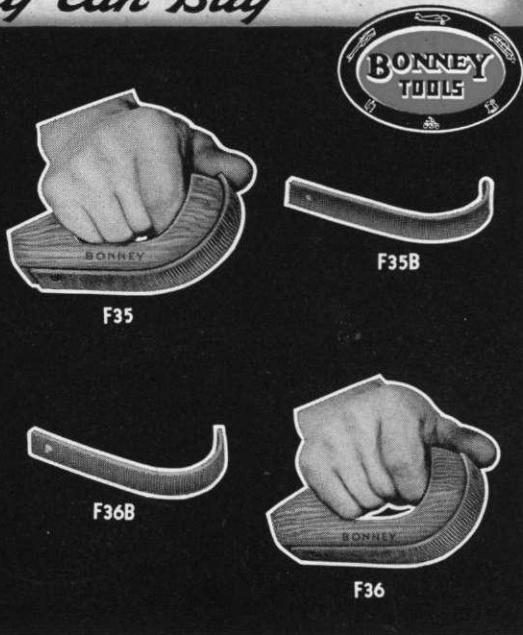
F38



F37



F38B



F35B

F35

F36

F36B



F36

## Bonney Body Files and File Holders

THE combination of file blade and correctly designed, matched and balanced holder is essential for best file performance. The Bonney Line of Blades and Holders shown is offered in combination as a genuine automotive service tool line.

They are especially useful for surface finishing automobile bodies, fenders, door panels, tops, drip mouldings; airplanes; in fact wherever a smooth finish is required on sheet steel, aluminum, stainless steel, monel metal, etc.

### FILE BLADES

No.	Size and Type	No.	Size and Type
F25	14" Flexible—U Tooth	F35B	7" Flat Revel
F32B	12" Half Circle—Shell	F36B	7" Moulding Revel
F33B	12" Half Round—Shell	F37B	7" Shell Revel
F34B	12" Moulding	F38B	6" Radius

### FILE HOLDERS

Holder No.	For Use With Blade No.	Holder No.	For Use With Blade No.
F24	F25	F35H	F35B
F32H	F32B	F36H	F36B
F33H	F33B	F37H	F37B
F34H	F34B	F38H	F38B

### BLADES and HOLDERS

No. Blade and Holder	Includes	
	Blade No.	Holder No.
F25X	F25	F24
F32	F32B	F32H
F33	F33B	F33H
F34	F34B	F34H
F35	F35B	F35H
F36	F36B	F36H
F37	F37B	F37H
F38	F38B	F38H

### BODY FILE SHAPES

"Flat" or "Flexible" refers to a flat cutting surface, with teeth on both sides of file or blade.

"Moulding" refers to a concave cutting surface, with teeth on inner or concave side of file.

"Shell" refers to convex cutting surface, with teeth on outer or convex side.

### SET NO. F26

Consists of one No. F24 File Holder and six No. F25—14" Flexible U Tooth Files. Holder in this set furnished without cost.

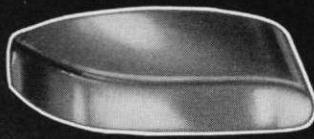
### NO. F40 REVEL SET

Contains one each No. F35, No. F36 and No. F37 Blades and Holders.



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## BODY and FENDER REPAIR TOOLS



Regular or Toe Dolly Block



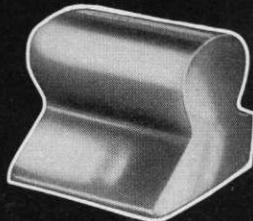
Heel Dolly Block



Bar Dolly Block



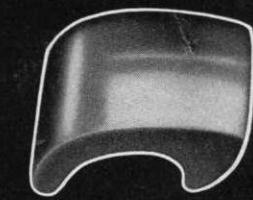
Wedge Dolly Block



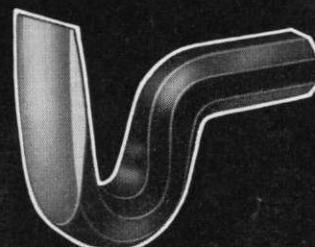
General Purpose Dolly Block



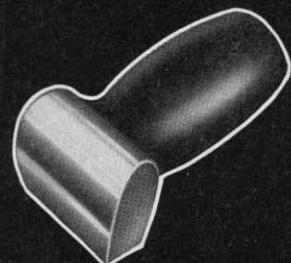
Budd Dolly Block



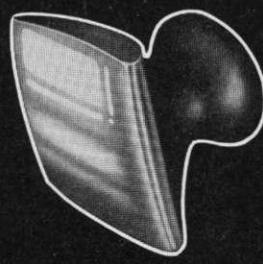
Fender Dolly Block



Fender Bracket Dolly



Small Hand Hold Dolly



Large Hand Hold Dolly

### No. F2 Regular or Toe Dolly Block

DROP-FORGED of selected steel and full surface ground and polished. Length 4 $\frac{3}{4}$  inches. Width 2 $\frac{1}{2}$  inches. Thickness 1 $\frac{1}{16}$  inches. Weight 2 $\frac{1}{2}$  lbs.

### No. F3 Heel Dolly Block

Drop-forged of steel most suitable for this type tool. Full surface ground and polished. Length 2 $\frac{1}{2}$  inches. Width 3 $\frac{1}{8}$  inches. Thickness 1 $\frac{1}{2}$  inches. Weight 2 $\frac{1}{4}$  lbs.

### No. F4 Bar Dolly Block

Drop-forged steel and full surface ground and polished. Length 4 $\frac{1}{4}$  inches. Width 2 inches. Thickness 1 $\frac{1}{2}$  inches. Weight 3 lbs.

### No. F5 Wedge Dolly Block

Designed especially for work on turret tops. Drop-forged of selected steel, with working surfaces highly polished. Length 5". Width 2 $\frac{1}{2}$ ". Weight 2 $\frac{1}{2}$  lbs.

### No. F6 General Purpose Dolly Block

Full surface ground and polished. Weight 3 lbs.

### No. F7 Budd Dolly Block

Drop-forged of selected steel. Full surface ground and polished. Its curved surfaces are designed so that it will take care of any repair on a Budd Body. Each block is carefully gauged after it is polished to insure correct radii of the curves. Weight 3 lbs.

### No. F8 Fender Dolly Block

Designed especially for repairs to fenders with rolled edges and beads. The small curved end works perfectly under the rolled edge. All working surfaces of this drop-forged dolly are highly polished. Length 4". Width 2 $\frac{3}{4}$ " at bead end, 2 $\frac{1}{2}$ " at heel end. Weight 2 $\frac{1}{2}$  lbs.

### No. F9 Fender Bracket Dolly

Drop-forged steel. The working face is polished and body is black enamel. Shaped so that it can be inserted between the fender bracket and fender. The curves have been worked out to take care of 10 leading makes of cars. Weight 1 $\frac{3}{4}$  lbs.

### No. F10 Small Hand Hold Dolly

Working surfaces are ground and polished. Weight 2 $\frac{1}{4}$  lbs.

### No. F12 Large Hand Hold Dolly

Working surfaces are ground and polished. Weight 3 $\frac{1}{2}$  lbs.



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Special Door Panel Spoon



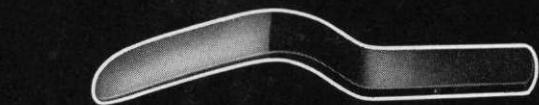
Long Body Spoon



Wide Body Spoon



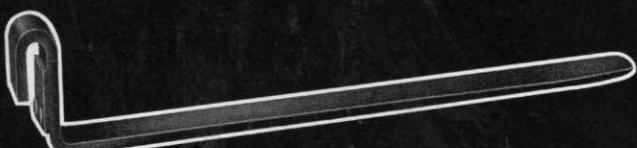
Panel Spoon



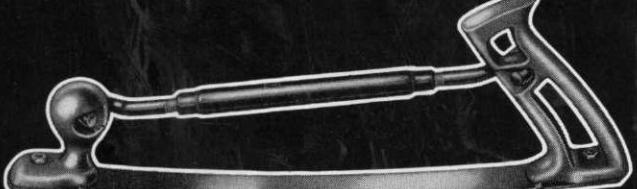
Small Body Spoon (Offset Blade)



Long Body Spoon (Offset Blade)



Combination Spoon and Bending Iron



Adjustable Flexible File Holder

## BODY AND FENDER REPAIR TOOLS

### No. F13 Special Door Panel Spoon

In addition to work on door panels, this spoon will be found handy for working on the quarterdeck of turret tops and between the headlining strainer and roof panels. It is also handy for work between the fender bracket and fender metal where a dolly block can't be used. Blade is  $2\frac{1}{4}$ " wide,  $5\frac{1}{2}$ " long. Handle is  $\frac{7}{8}$ " diameter. Weight 23 oz. Packed 6 to the box.

### No. F14 Long Body Spoon

Blade is ground and polished. Dimensions of blade  $\frac{3}{4}$  inches at point,  $1\frac{3}{16}$  inches at heel, 5 inches long. Overall length  $11\frac{1}{4}$  inches. Weight 8 oz.

### No. F15 Wide Body Spoon

Blade ground and polished. Dimensions of blade  $2\frac{1}{16}$  inches wide, 5 inches long. Overall length  $10\frac{1}{2}$  inches. Weight 1 lb.

### No. F16 Panel Spoon

Used in general body repair work and on turret tops. Forged of selected steel with polished working surfaces. Blade  $2\frac{1}{4}$ " wide,  $6\frac{1}{4}$ " long. Overall length  $11\frac{1}{4}$  inches. Weight 22 oz. Packed 6 to the box.

### No. F17 Small Body Spoon (Offset Blade)

Blade ground and polished. Width of blade  $1\frac{1}{8}$  inches. Overall length 7 inches. Weight  $5\frac{1}{2}$  oz.

### No. F19 Long Body Spoon (Offset Blade)

Blade ground and polished. Width of blade  $1\frac{1}{4}$  inches. Overall length  $10\frac{1}{4}$  inches. Weight  $11\frac{1}{2}$  oz.

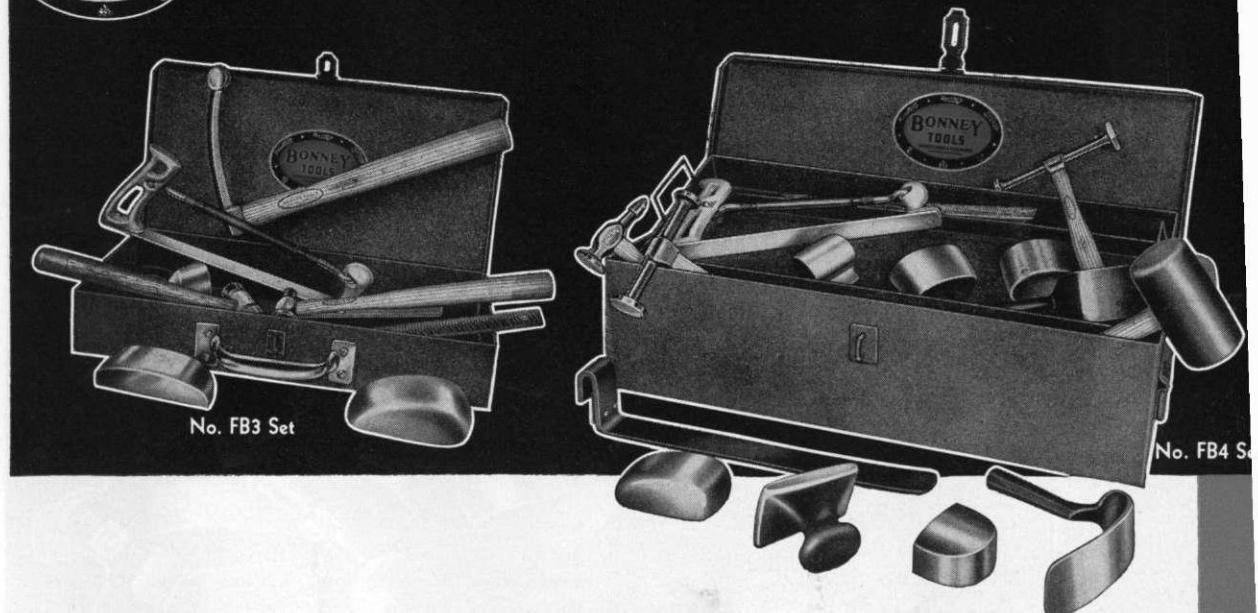
### No. 20 Combination Spoon and Bending Iron

Made of selected spring steel. Designed for straightening fender flanges, pushing out panel dents, etc. Stock  $1\frac{1}{4}$  inch x  $1\frac{1}{2}$  inch. Overall length 16 inches. Weight 2 lbs.

### No. F31 Adjustable Flexible File Holder

An expensive adjustable aluminum file holder for use with 14" flexible file blades. Permits flexing of file for use on a hollow (concave) or a round (convex).

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## BODY AND FENDER TOOL SETS

### No. FB3 Set

9 Pieces

A compact set of body and fender tools suitable for taking care of the minor bumps which the average shop is called on to straighten out. Contains 9 pieces packed in an attractively finished metal case measuring 17" x 8 1/4" x 2 1/2".

#### Contents

No.	Description
F2	Regular or Toe Dolly Block
F4	Bar Dolly
F10	Small Hand Hold Dolly
F25	Flexible Body File
F31	Aluminum Adjustable File Holder
F20	Combination Spoon and Bending Iron
PH15	1/2 lb. Soft Face Hammer
PH24	Dinging Hammer
PH29	Fender Bumper

Net Weight 17 lbs.

### No. FB4 Set

15 Pieces

Contains 15 essential pieces for body and fender repair work, packed in a strong, attractively finished metal box with removable tray, padlock hasp and end carrying handles. The box is sufficiently large to take care of tools you may have on hand or wish to add later. It measures 25" x 8 1/2" x 6 1/4".

#### Contents

No.	Description
PH24	Dinging Hammer
PH25	Light Dingding Hammer
PH26	Special Bumping Hammer
PH30	Fender Bumper Mallet
F3	Heel Dolly Block
F4	Bar Dolly
F5	Wedge Dolly Block
F6	General Purpose Dolly Block
F8	Fender Dolly Block
F12	Large Hand Hold Dolly
F13	Special Door Panel Spoon
F16	Panel Spoon
F20	Combination Spoon and Bending Iron
F25	Flexible Body File
F31	Aluminum Adjustable File Holder

Net Weight 49 lbs.

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## No. FB5 SET

24 Pieces

A complete set of Body and Fender Hammers, Dollies, Spoons, Files, etc. for the specialist in body and fender repair work. Each tool has been carefully selected so that the complete set will remove all ordinary body and fender dents with a minimum of trouble.

Packed complete in a large, attractively finished metal chest with removable tray, the whole assortment can be kept under lock and key when not in use. Chest measures 25" x 8½" x 6¼".

### Contents

No.	Description	No.	Description	No.	Description
PH22	Bumping Hammer	F2	Regular or Toe Dolly Block	F15	Wide Body Spoon
PH23	Light Bumping Hammer	F3	Heel Dolly Block	F16	Panel Spoon
PH24	Dinging Hammer	F4	Bar Dolly	F19	Long Body Spoon (Offset Blade)
PH25	Light Dingding Hammer	F5	Wedge Dolly Block	F20	Combination Spoon and Bending Iron
PH26	Special Bumping Hammer	F6	General Purpose Dolly Block	F25	Flexible Body File
PH27	Upholsterers' Magnetic Hammer	F8	Fender Dolly Block	F31	Aluminum Adjustable File Holder
PH29	Fender Bumper	F9	Fender Bracket Dolly		
PH30	Fender Bumper Mallet	F12	Large Hand Hold Dolly		
PH34	Offset Dingding Hammer	F13	Special Door Panel Spoon		

Net Weight 61 lbs.

# BONNEY PUNCHES



*The Finest that Money Can Buy*

**C**HISELS, Punches and similar hand tools are naturally subjected to very severe service. Bonney has spared no effort to meet these conditions and to offer the best in tools of this type. All are forged of the special alloy steel

which stands up best in the service to which they are put and are carefully heat treated.

Heads are comparatively soft which reduces chipping and allows them to be readily redressed when battered.

## Pin Punches

No.	Size Stock	Point Diameter	Length
C28	$\frac{3}{8}$	$\frac{1}{8}$	5
C29	$\frac{1}{2}$	$\frac{3}{16}$	$5\frac{5}{8}$
C30	$\frac{5}{8}$	$\frac{1}{4}$	$6\frac{3}{8}$

## Long Taper Punches

No.	Size Stock	Point Diameter	Length
C25	$\frac{3}{8}$	$\frac{5}{32}$	8
C26	$\frac{1}{2}$	$\frac{3}{16}$	9

## Solid Punches

No.	Size Stock	Point Diameter	Length
C21	$\frac{3}{8}$	$\frac{1}{16}$	$5\frac{1}{2}$
C22	$\frac{1}{2}$	$\frac{3}{32}$	$6\frac{1}{4}$
C23	$\frac{5}{8}$	$\frac{1}{8}$	7

## Prick Punch

No.	Size Stock	Length
C32	$\frac{3}{8}$	5

## Center Punch

No.	Size Stock	Length
C34	$\frac{3}{8}$	5

## Pry or Pinch Bar

No.	Size Stock	Length
C38	$\frac{5}{8}$	16

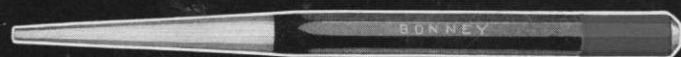
## Pry Bar

A pry bar and lining up punch with powerful leverage for removing gears, bushings, bearings, ball races, etc.

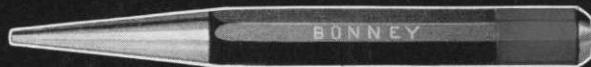
No.	Size Stock	Length
C39	$\frac{9}{16}$	$15\frac{1}{4}$



Pin Punches



Long Taper Punches



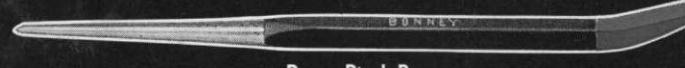
Solid Punches



Prick Punch



Center Punch

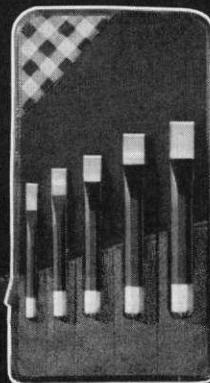
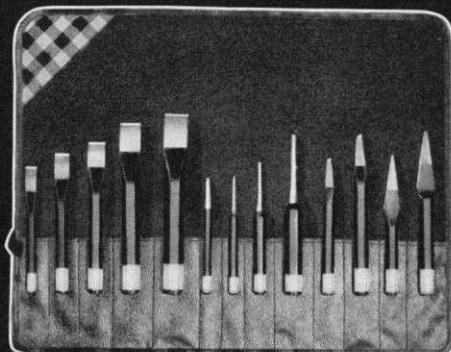
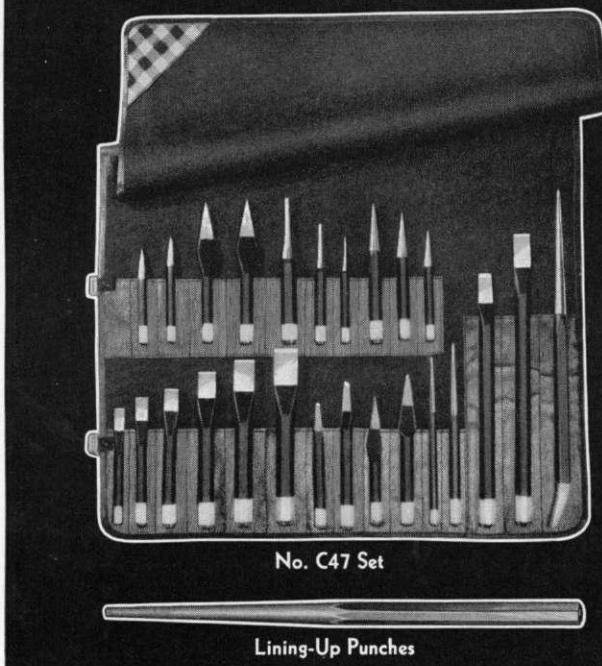


Pry or Pinch Bar



Pry Bar

*The Finest that Money Can Buy*



## PUNCH AND CHISEL SETS

**BONNEY** Punches and Chisels are forged from selected alloy steel and carefully heat treated. Their working bits are hard and tough enough to work on any untempered material, but sufficiently soft to be reshaped with a file. Their comparatively soft heads reduce chipping to a minimum and allow them to be readily redressed when battered. No better tools of this type can be purchased anywhere.

### No. C47 Punch and Chisel Set

For mechanics who require a complete set of punches and chisels, there is no better assortment than is found in this set. It contains one each of the following:

FLAT CHISELS	CAPE CHISELS	PUNCHES
Nos. C2	Nos. C12	Nos. C29
C3	C13	C26
C4	DIAMOND POINT CHISELS	C30
C5	Nos. C15	C34
C6	C16	C32
C7	ROUND NOSE CHISELS	C21
C10	Nos. C18	RIVET BUSTER
	C19	C22
		No. C36
		C23
		PRY OR
		C28
		PINCH BAR
		No. C38

### No. C46 Set

This set offers the mechanic a compact and complete assortment of chisels and punches to entirely cover his every day requirements. Nine chisels and four punches are included as follows:

Nos. C2 Flat Chisel	Nos. C15 Diamond Point Chisel
C3 Flat Chisel	C16 Diamond Point Chisel
C4 Flat Chisel	C28 Pin Punch
C5 Flat Chisel	C29 Pin Punch
C6 Flat Chisel	C30 Pin Punch
C12 Cape Chisel	C34 Center Punch
C13 Cape Chisel	

### No. C45 Flat Chisel Set

This set completely covers the range of chisel requirements of the average mechanic. It contains one each:

Nos. C2	Nos. C5
C3	C6
C4	

All are forged from high quality alloy steel of the composition most suitable for this type of tool. They are heat treated to assure a hard, tough working bit, while their octagon shape offers an easy, secure grip.

### Lining-Up Punches

(Silico-Manganese Steel)

No. 8386— $\frac{5}{8}$  inch stock,  $\frac{5}{16}$  inch point. Overall length 15 inches.

No. 8385— $\frac{3}{4}$  inch stock,  $\frac{5}{16}$  inch point. Length overall 18 inches.

File This Book

Under

Number

**820**

Weatherly  
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